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# TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS

COMPILED BY  
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WASHINGTON  
GOVERNMENT PRINTING OFFICE  
1913

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DEPARTMENT OF THE INTERIOR,  
BUREAU OF EDUCATION,  
*Washington, November 5, 1913.*

SIR: One of the greatest needs of our elementary and secondary schools, both public and private, is the need for suitable material to supplement the meager outlines and brief statements of the textbooks in geography, history, hygiene, nature study, agriculture, and other subjects. This need is greatest in country and village schools, which are without access to public libraries. Among the publications of the Federal and State Governments, reports, bulletins, circulars, and special documents, are thousands of pages of matter of highest value for this purpose. Frequently these are published under titles that in no way indicate their fitness for this use. Very frequently the usable matter covers only a few pages in a document of several hundred pages. Few are the teachers who know of the existence of any of this matter. If this bureau had sufficient funds, it might render a valuable service to thousands of schools and millions of children by carefully selecting this material, classifying it by subjects, grading it for classes according to their advancement, and having it reprinted for general distribution, either free of charge or at a price only sufficient to cover the cost of printing. If this could be done, the school work in these subjects might be made far more interesting, thorough, and practical than it now is, but the bureau has no funds with which to undertake this important work. To the end that teachers and school officers may have some knowledge of the nature of some of this material, I have had the accompanying briefly annotated lists of a few of these publications prepared by Mr. Frederick K. Noyes and ask that they be published as a bulletin of the Bureau of Education.

Respectfully submitted.

P. P. CLAXTON,  
*Commissioner.*

To the SECRETARY OF THE INTERIOR.

## TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

### INTRODUCTION.

For the purposes of this bulletin, teaching material is defined as follows:

1. Any publication suitable for text use.
2. Any publication containing pictures or facts which may be serviceable in illustrating or supplementing the texts already in use. Such a publication may be useful as collateral reading or may furnish the basis in whole or in part for a supplementary talk by the teacher.
3. Any publication which may add to the value of a library in the course of accumulation by school or teacher; such publications, for instance, as source documents, annuals, works of reference, or reports of detailed investigations, the results of which are likely to stand for some time. But publications of this kind which are too voluminous, technical, or expensive are generally excluded.

### HOW THE LIST HAS BEEN SELECTED.

The method of selection is indicated in part by the definition of teaching material just given. In addition, the following classes of publications are omitted:

1. Generally speaking, publications of minutely local interest.
2. Works on scientific, sociological, or economic questions 10 years old or older. This rule, like all others given, is laid down for general guidance rather than for inflexible observance.
3. Books containing only a few pages of available matter and many pages of unavailable matter.
4. Speeches in general, especially those delivered in the course of legislative debates.

Possibly the objection may be raised that too much material has been barred; but on the other hand this bibliography makes no pretensions to being complete. Rather it is intended to be suggestive of the vast stores of teaching material which lie embedded in Government documents, many of which give no indications, from their titles, of their value for educational purposes. It remains for other lists, compiled for special localities or covering special topics

or courses, to go more into detail. A directory of such lists as these which are already in existence will be found on page 9.

#### HOW THE LIST IS CLASSIFIED.

No attempt has been made to group the entries on a closely scientific basis. Instead, the basis of classification is that of the school course. In elementary and secondary schools—especially in those of the rural regions, for which this bulletin is more specifically intended—geography includes not only physical, commercial, and political geography, but also such subjects as anthropology, meteorology, and geology, in so far as these subjects are dealt with at all. Hence, in this list all these classes of works are placed under the general heading of geography.

Again, nature study in the type and grades of schools considered generally means also zoology, entomology, and botany as well; and entries treating of these sciences in their non-economic relations are entered accordingly. The only notable exception to this rule is that entomological publications on household pests are put under hygiene. Of course, when any publication treats of a given plant or animal with a view to teaching how it may be raised or profitably exploited, such a publication is listed in its proper class under agriculture or other suitable heading.

This method of classification has led to some overlapping, but to little or no more—so it is thought—than is encountered in the school curriculum itself.

#### ORDER OF ENTRY NOTATIONS.

Nearly every entry observes the following order: Author, title of work, date of publication, number of pages, Government branch which issues it, serial number of the publication, if any; and price. Unless otherwise specified every publication listed is an octavo, paper-bound, and is issued at Washington, D. C. from the press of the Government Printing Office.

This is an "author catalogue;" that is to say, the entries are grouped under each heading alphabetically by authors. However, when much space may be saved by using a subject heading, such heading is introduced in its proper alphabetical position.

Special mention should be made of the annual reports of the Smithsonian Institution. Working in pursuance of the terms of its charter, under which it was established "for the increase and diffusion of knowledge among mankind," this foundation prints a "Report" every year containing a number of articles on miscellaneous scientific subjects. The report as a whole can be listed under no

one subject; nor is it practicable to list separate papers under their respective headings, for the reason that in this case the teacher would virtually be asked to pay for a book of several hundred pages in order to get an article of only some 10 or 20 pages, without knowing whether the rest of the volume contained sufficient matter of personal interest to make the investment worth while. It was equally impracticable to publish the entire list of contents of the reports, owing to the limitations of space. For these reasons, the publications of the Smithsonian Institution have been generally omitted. However, it may be added that many articles from the Smithsonian's reports have been reprinted separately. Which of these separates are now in stock can best be ascertained by addressing the chief clerk of the Smithsonian Institution, Washington, D. C. The Superintendent of Documents, the official sales agent of Government publications, has none of these separates for sale.

#### HOW THE PUBLICATIONS MAY BE EXAMINED BEFORE THEY ARE ORDERED.

Every congressional district contains one public library to which all Government publications are sent. In addition, each United States Senator has the privilege of naming another of these "depository libraries," and in every case the State libraries are ex officio depositories. Thus, there are nearly 600 libraries at which the Government documents listed here may be examined. Moreover, in the States which maintain a system of "traveling libraries," it may be possible for the teacher to make arrangements with the State librarian whereby the publications may be forwarded to the teacher's home address for examination.

All or nearly all the publications issued by the Government were not intended primarily for school purposes. For this reason their greatest availability lies in using them as illustrative or supplementary aids; and so it is necessary for the teacher to exercise careful discrimination in ordering and using them.

#### HOW THE PUBLICATIONS MAY BE OBTAINED.

Documents and reports of the Senate and House of Representatives may be obtained from Senators and Representatives if they have not exhausted their allotments. As only a small number is allotted to each Member of Congress, it is not likely that they can supply the older publications. If Members of Congress can not supply congressional publications, they may be obtained from the Superintendent of Documents at the prices given in this list. The executive departments and bureaus do not distribute documents and reports issued by Congress. Bureau and departmental publications for which



a price is given in this list should be ordered from the Superintendent of Documents, as the departmental supply is exhausted. Read carefully the statement of that officer printed on page 11, on which he gives directions for ordering and remitting. The Superintendent of Documents has nothing except his own price lists for free distribution. If no price is given the publication may be obtained free from the office issuing it as long as the supply lasts.

It is impossible to make any hard and fast distinction, permanently covering all cases, between the Government publication which is free and that for which a charge is asked. The supply of a given document allotted for free distribution may be exhausted one month and renewed the next, a charge being made in the interim for those ordered out of the reserve stock; or the free supply may never be renewed, with the result that after a given time the document which was originally free will always rank as a sale publication.

With one exception, the entire series of Farmers' Bulletins, which consist of nearly 550 popularly written monographs dealing with almost every phase of country life and city horticulture, may be obtained free as long as the supply lasts, and at 5 cents per copy afterwards. The one exception is the Farmers' Bulletin, entitled "Fifty Common Birds of Field and Orchard," which sells for 15 cents.

In ordering any publication from this list, copy the entire entry. Special rules for ordering from the Department of Agriculture and the Superintendent of Documents are reprinted elsewhere.

#### CLASSIFICATION ADOPTED IN THIS CATALOGUE.

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| <p>I. Agriculture.</p> <ol style="list-style-type: none"> <li>1. Education.</li> <li>2. Plant Production.               <ol style="list-style-type: none"> <li>a. Gardening.</li> <li>b. Horticulture.</li> <li>c. Forestry.</li> </ol> </li> <li>3. Animal Production.               <ol style="list-style-type: none"> <li>a. Animal Husbandry.</li> <li>b. Poultry and Bees.</li> </ol> </li> <li>4. Farm Economics.</li> <li>5. Farm Engineering.</li> </ol> <p>II. Domestic Science.</p> <p>III. Economics.</p> | <p>IV. Geography.</p> <ol style="list-style-type: none"> <li>1. Physical and Political Geography.</li> <li>2. Commercial Geography.               <ol style="list-style-type: none"> <li>a. Forestry and Forest Products.</li> <li>b. Other Physical Geography.</li> </ol> </li> <li>3. Maps and Charts (except historical).</li> </ol> <p>V. History.</p> <p>VI. Hygiene and Sanitation.</p> <p>VII. Nature Study.</p> <p>VIII. Miscellaneous.</p> |
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#### LISTS OF GOVERNMENT PUBLICATIONS.

*Treasury Department.*—The Division of Printing and Stationery issues irregularly a brief list of the department's publications. The Public Health Service issues a fuller list of its own documents.

*Interior Department.*—The Bureau of Education, Bureau of Mines, Patent Office, Reclamation Service, and Geological Survey issue irregularly lists of their respective publications. In addition, the Bureau of Mines and the Geological Survey issue monthly lists. The Geological Survey issues index maps of its topographic maps, 2,300 in number; also a series of lists showing the maps, geological folios, and geological reports covering given localities or areas. Another selected list of topographic maps is compiled to show the various physiographic types observed in the United States.

*Department of Agriculture.*—The Division of Publications issues a monthly list of publications, a list of publications for free distribution, a list of publications for sale, a list of Farmers' Bulletins, a subject index of material in the Farmers' Bulletins, and a monthly list of station publications received by the Office of Experiment Stations.

The Office of Experiment Stations has issued a list of the free publications of the Department of Agriculture classified for the use of teachers. It is especially desirable that every rural or agricultural school teacher possess a copy of this list. The office's Circular 93 tells the organization, work, and publications of the agricultural education service.

The Forest Service has issued a compilation of material for use in schools, obtainable from it; also a bibliography of books and periodicals on trees, forestry, and conservation.

*Department of Commerce.*—The office of the Secretary issues about every 12 months a list of its publications available for public distribution.

The Bureau of Foreign and Domestic Commerce has also issued a bulletin entitled, "Promotion of Commerce: Outline of the Service Maintained by the Bureau of Foreign and Domestic Commerce and Other Bureaus and Offices of the Government of the United States. 1912. 29 p. (Miscellaneous series, no. 6B)." This bulletin contains an exhaustive bibliography of the bureau's relevant publications, in addition to the descriptive outline.

The *Library of Congress* has issued a list of its publications since 1897; this list includes a large number of bibliographies and reference lists on many and diverse special topics, with especial reference to those coming under the classification of economics, politics, history, and law.

The *Smithsonian Institution* has a list of its publications, and of those of its subsidiary, the Bureau of Ethnology.

The *Pan-American Union* has a list of its publications.



## LISTS ISSUED BY THE SUPERINTENDENT OF DOCUMENTS.

The Superintendent of Documents issues a monthly catalogue of Government publications, which is sold for \$1.10 a year.

After the end of each session of Congress there is compiled and published an index to the reports and documents of the session. This index is issued as a congressional document and is distributed like other congressional reports and documents.

After the end of each Congress there is compiled and published a catalogue of all publications of the Government, both executive and legislative, issued during the Congress. This is printed as a document of Congress and is distributed like other documents. The latest volume issued is volume 9, for the Sixtieth Congress, covering the period from July 1, 1907, to June 30, 1909.

The Superintendent of Public Documents, Government Printing Office, Washington, D. C., has issued the following descriptive price lists of United States public documents. The lists are free, but none of the publications listed can be given away by his office.

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| 10. Laws of United States.  | 31. Education.   |
| 15. Geological Survey publications.   | 32. Noncontiguous territory. Publications on Alaska, Canal Zone, Cuba, Guam, Hawaii, Philippine Islands, and Porto Rico.                     |
| 16. Secretary's Office (Agriculture Dept.)<br>List of Farmers' bulletins, Agriculture Department reports, and yearbooks, including publications on miscellaneous agricultural subjects. | 33. Labor questions.   |
| 18. Engineering: Mechanics. Publications relating to mining, fuel-testing, electricity, river and harbor improvements, etc.   | 35. Geography and explorations. Publications of Coast and Geodetic Survey, and Government explorations in the West and in foreign countries. |
| 19. Army and Navy. Publications of War and Navy Departments and documents relating to the Army and Navy.  | 36. Periodicals published by various Government bureaus.   |
| 20. Lands. Publications of General Land Office, and other documents relating to conservation, drainage, forest reservations, and irrigation.  | 37. Tariff.  |
| 21. Fishes.   | 38. Animal Industry Bureau. Publications relating to domestic animals, poultry, and dairy industry.  |
| 24. Indians.  | 39. Biological Survey. Publications relating to birds and harmful animals.   |
| 25. Transportation. Publications of Interstate Commerce Commission, and other documents relating to roads, railroads, inland waterways, and shipping.                                   | 40. Chemistry Bureau. Publications on chemical analyses of food and drug products.   |
| 28. Finance. Publications of the Treasury Department and National Monetary Commission, and other documents on banking, currency, etc.   | 41. Entomology Bureau. Publications on insects.  |
|   | 42. Experiment Stations Office. Publications relating to nutrition, drainage and irrigation investigations, and agriculture extension work.  |
|   | 43. Forest Service. Publications on trees, lumber, wood preservation, and forest management.   |

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| <p>44. Plant Industry Bureau. Publications on seed selection, breeding, and diseases of economic plants.</p> <p>45. Public Roads Office. Publications on experiments with road materials and in road building.</p> <p>46. Soils.</p> <p>47. Statistics Bureau, Agriculture Department.</p> <p>48. Weather Bureau. Publications on weather forecasts and statistics of temperature, rainfall, and river stages.</p> <p>50. American history. Publications on political and military history of the United States and diplomatic relations with foreign countries.</p> | <p>51. Health and hygiene. Publications on dietary studies, milk supply, food adulteration, sanitation, and disease.</p> <p>52. Poultry: Birds.</p> <p>53. Maps published by various Government bureaus.</p> <p>54. Political economy. Publications on immigration, corporations, initiative and referendum, recall, etc.</p> <p>55. National Museum publications.</p> <p>56. Smithsonian Institution publications, including publications of Ethnology Bureau and American Historical Association.</p> <p>57. Astronomical papers of the Naval Observatory.</p> |
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The foregoing by no means embrace all the subjects treated in public documents. If you fail to see here what you want, send your inquiries to the Superintendent of Documents and they will be answered.

#### HOW TO ORDER FROM THE SPECIAL LISTS.

##### STATEMENT BY THE SUPERINTENDENT OF DOCUMENTS.

The Superintendent of Documents is authorized to sell at cost any public document in his charge the distribution of which is not otherwise provided for.

**DOCUMENTS CAN NOT BE SUPPLIED FREE TO INDIVIDUALS, NOR CAN THEY BE FORWARDED IN ADVANCE OF PAYMENT.**

The accumulation of Government publications in this office amounts to several millions, of which more than a million are available as a sales stock, covering nearly every important department, bureau, and series. Many rare books are included, but under the law all must be sold "at cost," regardless of their age or scarcity. Of many of the most valuable works, but few copies remain.

In ordering, it should be borne in mind that most of the books have been in stock some time and are likely to be shopworn. In filling orders, however, the best copy available is sent.

This office possesses the most nearly complete collection of United States Government publications and employs several document experts in reference work. Information regarding public documents will gladly be supplied.

As the sales office for Government publications, we are anxious to inform the people how and where to secure documents they may desire.

Lists on various subjects will be issued from time to time **FOR FREE DISTRIBUTION**. No general price list of public documents is at present available, but lists on special subjects will be furnished on application.

No publications can be distributed free or exchanged.

#### HOW TO REMIT.

Remittances should be made to the **SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C.**, by postal money order, express order, or New York draft. If currency is sent, it will be at sender's risk.

**TO FACILITATE THE PAYMENT OF THE COST OF DOCUMENTS, THE SUPERINTENDENT OF DOCUMENTS WILL ACCEPT COUPONS ISSUED**

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BY HIM INSTEAD OF CASH. COUPONS OF THE VALUE OF 5 CENTS EACH ARE SOLD IN SETS OF 20 FOR \$1.00. ADDRESS ORDER TO SUPERINTENDENT OF DOCUMENTS, GOVERNMENT PRINTING OFFICE, WASHINGTON, D. C.

*Postage stamps, coins defaced or worn smooth, foreign money, or uncertified checks positively will not be accepted.*

No charge is made for postage on documents forwarded to points in the United States, Guam, Hawaii, Philippine Islands, Porto Rico, or to Canada, Cuba, or Mexico. To other countries the regular rate of postage is charged, and remittances must cover such postage.

### PUBLICATIONS OF THE UNITED STATES DEPARTMENT OF AGRICULTURE.

Under the new plan of publication work, adopted July 1, 1913, publications of the Department of Agriculture may be classified as follows:

1. *Annual reports.*—These consist of such as the Yearbook, the annual reports of the various bureaus, divisions, and offices, which, in connection with the Annual Report of the Secretary, constitute the volume entitled "Annual Reports, Department of Agriculture." In addition to these, annual reports of bureau operations are prepared, under the law, by the Weather Bureau, the Bureau of Animal Industry, the Bureau of Soils, and the Office of Experiment Stations. Of these, the Yearbook is perhaps the most popular. It is usually illustrated with full-page half-tone and colored illustrations, and contains much material that might be useful in teaching a variety of subjects. Of this volume 500,000 copies are printed annually, 470,000 being reserved for distribution by Senators, Representatives, and Delegates in Congress, from whom copies can probably be secured by teachers desiring the volumes for their school libraries.

2. *The departmental series of bulletins.*—These will contain the popular and semi-technical papers that have heretofore been published in the bulletin or circular series of the various bureaus, divisions, and offices. The bureau series have been discontinued. These bulletins are designed to describe in popular form the results of investigations by the department, each bulletin being confined to a particular subject; the size will vary from 4 to 60 pages. The bulletins will be for free distribution as long as the supply lasts; after that applicants will be referred to the Superintendent of Documents, who has them for sale under the law of January 12, 1895.

3. *Journal of Research.*—The scientific and technical matter heretofore published in the bureau bulletins and circulars will hereafter appear in the Journal of Research, which will be distributed free only to agricultural colleges, technical schools, experiment stations,

\* Statement furnished by Mr. Joseph A. Arnold, Chief of Division of Publications, Department of Agriculture.

libraries of large universities, Government depositories, and to such institutions as make suitable exchanges with the department. This journal is not designed for free popular distribution, but will be for sale by the Superintendent of Documents at an annual price to be affixed by him.

4. *Periodicals*.—These will comprise the Experiment Station Record, the Monthly Weather Review, and the North American Fauna. These publications are issued in rather limited editions because they are not suitable for popular distribution.

5. *Farmers' Bulletins*.—This is the most popular series of publications of the department, and the pamphlets are designed for the widest possible distribution. They vary in size from 4 to 32 pages, deal with a particular subject, and give positive directions for doing things. The demand for them is so great that the department can not supply them in sufficient quantity for class work; therefore, teachers are referred to their Senators or Representatives in Congress, each of whom has an allotment of the publications to his credit for distribution to his constituents. A limited number of copies can sometimes be supplied by the department.

There is no list of persons who receive all of the publications issued, as this would be a very wasteful and unsatisfactory method of distribution. Instead, the Monthly List of Publications is issued about the first of each month and is sent regularly to all who ask to receive it. From this list publications can be ordered by proper title and number, either from the free or sales list. Only requests for publications that are for free distribution should be addressed to the Department of Agriculture.

In case teachers desire special advice or suggestions with reference to the publications for class use they may write direct to the Office of Experiment Stations, which is specifically charged with carrying on the farm educational work of the department.

Teachers of correlated subjects in the same school may economize not only in the number of bulletins used, but also in their own and their pupils' work, by comparing lists before ordering publications. A limited number of bulletins carefully studied by the teacher or the class, or assigned to certain members for individual reports, are of much greater service than a hundred forgotten on the shelves at home or in the school library.

#### SPECIAL HELPS TO THE TEACHER, OTHER THAN PUBLICATIONS.

• The Office of the Secretary, Interior Department, has a collection of 83 photographs of national parks, in color, of a size to cover a 250-foot wall space in single tier, which is lent to libraries for exhibition purposes on payment of transportation charges. An accompanying catalogue contains brief quotations describing most of the pictures.



The Forest Service, Department of Agriculture, has several special sets of colored lantern slides for educational use, each set accompanied by a syllabus for a lecture. The subjects thus covered are: General forestry, conservation of the forests, the work of the Forest Service, the care and protection of shade trees, nature study and forestry, botany and forestry, manual training and forestry, geography and forestry, agriculture and forestry. The first four lectures are of general interest; the last five are designed for special use in schools.

The Forest Service also has a special collection of 44 large mounted photographs on "The Forests of the United States, Their Use and Preservation," prepared as a traveling exhibit to be lent to schools, libraries, and other educational institutions. These photographs are arranged in 11 series, of 4 pictures each. These series, with descriptions, form illustrated "stories" on special features of forest work and forest conditions. Each series is mounted on a strip of green denim cloth, with eyelets in the upper corners, for hanging. The whole exhibit covers a wall space 4½ feet high and about 14 feet long.

This exhibit, like the lecture syllabuses and slides already noted, is loaned for short periods on condition that the borrower agree to pay express charges and to forward the pictures promptly at the direction of the Forest Service.

Mounted or unmounted prints may also be purchased from the Forest Service for educational use at prices according to the sizes. An outline of subjects illustrated and a price list will be furnished on request.

The Office of Experiment Stations, Department of Agriculture, has prepared a series of 14 lecture syllabuses, each lecture being illustrated with from 45 to 50 lantern slides, on the following subjects: The care of milk; potato diseases and their treatment; acid soils; profitable cattle feeding; silage and silo construction for the South; essentials for successful field experimentation; roads and road building; farm architecture; tobacco growing; production and marketing of eggs and fowls; wheat culture; farm homes; peanuts, their cultivation and uses; and farm home grounds. These lectures are all practical in treatment, being especially designed for farmers' institute uses. They are sent to teachers, accompanied with the lantern slides, on payment of transportation charges.

The Office of Experiment Stations is also preparing a series of lectures dealing especially with pedagogic aspects of instruction in agriculture. The school garden and home improvement are two collateral subjects to be taken up in this series. Each lecture syllabus

will be illustrated with about 60 lantern slides. This series will be lent on the same terms as the other.

The Isthmian Canal Commission, War Department, has several hundred slides showing the progress of construction on the Panama Canal, selections from which will be lent on payment of transportation.

*List of abbreviations used in this bulletin.*

List name of Government branch.	Official name of Government branch.	Executive department controlling it.
Agriculture Department.....	Department of Agriculture.....	
American Ethnology Bureau.....	Bureau of American Ethnology..	Smithsonian Institution.
Animal Industry Bureau.....	Bureau of Animal Industry.....	Department of Agriculture.
Biological Survey Bureau.....	Bureau of the Biological Survey..	Department of Agriculture.
Census Bureau.....	Bureau of the Census.....	Department of Commerce.
Chemistry Bureau.....	Bureau of Chemistry.....	Department of Agriculture.
Coast and Geodetic Survey.....	Same.....	Department of Commerce.
Commerce Department.....	Department of Commerce.....	
Corporations Bureau.....	Bureau of Corporations.....	Department of Commerce.
Entomology Bureau.....	Bureau of Entomology.....	Department of Agriculture.
Experiment Stations Office.....	Office of Experiment Stations.....	Department of Agriculture.
Fisheries Bureau.....	Bureau of Fisheries.....	Department of Commerce.
Foreign and Domestic Commerce Bureau.....	Bureau of Foreign and Domestic Commerce.	Department of Commerce.
Forest Service.....	Same.....	Department of Agriculture.
General Land Office.....	Same.....	Department of the Interior.
Geological Survey.....	Same.....	Department of the Interior.
Government Printing Office.....	Same.....	Independent.
Immigration Bureau.....	Bureau of Immigration.....	Department of Labor.
Indian Affairs Office.....	Office of Indian Affairs.....	Department of the Interior.
Insular Affairs Bureau.....	Bureau of Insular Affairs.....	Department of War.
Interior Department.....	Department of the Interior.....	
Isthmian Canal Commission.....	Same.....	Department of War.
Justice Department.....	Department of Justice.....	
Labor Statistics Bureau.....	Bureau of Labor Statistics.....	Department of Labor.
Library of Congress.....	Same.....	Independent.
Mines Bureau.....	Bureau of Mines.....	Department of the Interior.
Navy Department.....	Department of the Navy.....	
Pan-American Union.....	Same.....	Independent.
Plant Industry Bureau.....	Bureau of Plant Industry.....	Department of Agriculture.
Post Office Department.....	Post Office Department.....	
Public Health Bureau.....	Bureau of the Public Health.....	Department of the Treasury.
Public Roads Office.....	Office of the Public Roads.....	Department of Agriculture.
Reclamation Service.....	Same.....	Department of the Interior.
Smithsonian Institution.....	Same.....	Independent.
Soils Bureau.....	Bureau of Soils.....	Department of Agriculture.
State Department.....	Department of State.....	
Statistics Bureau.....	Bureau of Statistics.....	Department of Agriculture.
Superintendent of Documents.....	Same.....	Government Printing Office.
Treasury Department.....	Department of the Treasury.....	
War Department.....	Department of War.....	
Weather Bureau.....	Same.....	Department of Agriculture.



## AGRICULTURE. EDUCATION.

**Abbey, M. J.** Normal school instruction in agriculture. 1909. 31 p. (Agriculture dept. Experiment stations office. Circular 90) 5 cts.

Methods followed in one state normal school to prepare rural school teachers in elementary agriculture. Valuable for teachers rather than students.

**Benson, O. H.** Special contests for corn club work. 1912. 15 p. illus. (Agriculture dept. Plant industry bureau. Circular 104)

How to organize them; when, where, prizes to give, etc.

**Christie, George I.** Educational contests in agriculture and home economics. For use in farmers' institute and agricultural extension work. 1913. 47 p. (Agriculture dept. Experiment stations office. Bulletin 255) 5 cts.

Outlines 28 different contests and demonstrations, adapted to both sexes and all ages. Gives full sets of forms, rules, awards, etc.

**Corbett, L. C.** The school garden. 1909. 41 p. illus. (Agriculture dept. Farmers' bulletin 218)

How to establish it; laboratory exercises; window boxes for school-rooms; specimen plants for schoolrooms; decoration of school grounds; soil treatment.

Especially useful to teachers in elementary city schools.

**Country life commission.** Special message from President [Roosevelt] transmitting report of commission. 1909. 65 p. (60th Cong., 2d sess. Senate doc. 705) 10 cts.

CONTENTS.—1. General statement; 2. Main special deficiencies in country life; 3. General corrective forces that should be set in motion.

The object of the report is to point out how country life can be made more wholesome, attractive, complete and prosperous.

**Crosby, Dick J.** School exercises in plant production. 1910. 48 p. illus. (Agriculture dept. Farmers' bulletin 408)

Contains "exercises illustrating some of the more important principles of plant production"; of these, 23 deal with "the plant" and 23 with "the environment of the plant." Contains also a bibliography for teachers. This bulletin "is intended as a laboratory guide or manual for the use of teachers and not as a textbook." Useful in rural common schools.

— **and Howe, F. W.** Free publications of the Department of agriculture classified for the use of teachers. Revised, 1910. 35 p. (Agriculture dept. Experiment stations office. Circular 94) 5 cts.

Several hundred entries, classified with reference to subjects commonly taught in the schools.

— **School lessons on corn.** 1910. 29 p. illus. (Agriculture dept. Farmers' bulletin 409)

Syllabus of class studies; exercises in selection, judging, testing, cultivation, breeding, etc.; bibliography.

Useful to teacher in rural common school.

**Green, Samuel B.** Course in fruit growing for movable schools of agriculture. 1907. 100 p. (Agriculture dept. Experiment stations office. Bulletin 178) 15 cts.

A syllabus of 15 lectures, with an equal number of practice exercises; outline of a reading course, and list of apparatus and material, with cost itemized.

**Hatch, K. L.** Simple exercises illustrating some applications of chemistry to agriculture. 1908. 28 p. illus. (Agriculture dept. Experiment stations office. Bulletin 195) 5 cts.

Twenty-eight exercises, dealing with plant foods, plant products, and the soil. Supplements "Exercises in elementary agriculture," by Dick J. Crosby, which see.

**Hilman, F. H.** Testing farm seeds in the home and in the rural school. 1911. 47 p. illus. (Agriculture dept. Farmers' bulletin 428)

Simple tests, with inexpensive apparatus, "admirably adapted for practical exercise work in elementary agriculture in rural schools."

**Howe, F. W.** Boys' and girls' agricultural clubs. 1910. 23 p. illus. (Agriculture dept. Farmers' bulletin 385)

Discussion of the movement and suggestions for the organization and work of similar clubs. Useful in rural common schools.

**Jackson, Edwin B.** Agricultural training courses for employed teachers. 1913. 17 p. 8°. (Agriculture dept. Office of experiment stations. Bulletin 7)

**Kelly, Ernest.** Milk and cream contests. How to conduct them and how to prepare samples for competition. 1912. 28 p. (Agriculture dept. Animal industry bureau. Circular 205) 5 cts.

**Moore, Walter M., and Jackson, Edwin B.** Forest nurseries for schools. 1910. 24 p. illus. (Agriculture dept. Farmers' bulletin 423)

"The suggestions are particularly valuable to rural school teachers, since they clearly describe a form of school-garden work which is applicable to all parts of the country and which . . . will be of greater permanent value than almost any other kind of school work."

**Van Slyke, L. L.** Course in cheese-making for movable schools of agriculture. 1906. 63 p. (Agriculture dept. Experiment stations office. Bulletin 166) 10 cts.

A syllabus of 14 lectures accompanied by 14 practice exercises; bibliography; list of books intended for a library, list of apparatus, with cost itemized.

**Smith, H. B.** A secondary course in animal production. 1911. 56 p. (Agriculture dept. Experiment stations office. Circular 100) 5 cts.

A syllabus of lectures, recitations, etc.—165 lessons in all, with bibliography. Useful in aiding the teacher prepare this course.

**Stuart, William.** Potato growing as club work in the North and West. 1913. 10 p. illus. (Agriculture dept. Plant industry bureau. Document 884)

Document 884.

## PLANT PRODUCTION.

### GARDENING.

**Corbett, L. O.** The propagation of plants. 1909. (reprint) 23 p. illus. (Agriculture dept. Farmers' bulletin 157)

Cuttings and their use, laying, grafting and budding. The treatment is simple, brief and practical rather than complete and technical. Of especial use in growing small fruits, grapes and orchard fruits. Can be used in any course, from elementary up.

— Tomato growing as club work in the North and West. 1913. 10 p. illus. 8°. (Agriculture dept. Bureau of plant industry. Document 883)

**Duggar, J. F.** Potato culture. 1896. 23 p. illus. (Agriculture dept. Farmers' bulletin 35)

Gives special attention to the most profitable amount of seed, with allied questions. Useful as a guide in practical garden-work.

**Duval, J. W. T.** The germination of seed corn. 1906. 16 p. illus. (Agriculture dept. Farmers' bulletin 253)

Need and methods for testing the vitality of corn intended for planting by the germination test. Valuable for rural high and agricultural schools; can also be used in rural common schools to advantage. A good nature-study exercise anywhere.

**Fallier, George H.** Management of soils to conserve moisture, with special reference to semi-arid conditions. 1906. 30 p. figs. (Agriculture dept. Farmers' bulletin 266)

How to dry-farm told in simple English. For local use in rural high and agricultural schools.

**Galloway, B. T.** Distribution of seeds and plants by the Department of agriculture. 1912. 23 p. illus. (Agriculture dept. Plant industry bureau. Circular 100) 5 cts.

Gives history, purpose, methods, and extent of the distribution.

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## 18 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Hartley, O. P.** Corn cultivation. 1910. 32 p. illus. (Agriculture dept. Farmers' bulletin 414)

This, together with the two other farmers' bulletins by Mr. Hartley noted below, is of great value to boys' corn clubs.

— **Harvesting and storing corn.** 1907. 29 p. figs. (Agriculture dept. Farmers' bulletin 313)

— **Seed corn.** 1911. 13 p. illus. (Agriculture dept. Farmers' bulletin 415)

### Insect pests.

If any particular crop is being attacked write to the Bureau of entomology, Dept. of agriculture, for information. The bureau also studies the insects obnoxious to live stock, poultry, bees, and man.

**Westgate, J. M., and Hillman, F. H.** Red clover. 1911. 48 p. illus. (Agriculture dept. Farmers' bulletin 455)

Chiefly valuable for its practical farming hints; useful in advanced work.

## HORTICULTURE.

**Corbett, L. C.** Annual flowering plants. 1904. 48 p. illus. (Agriculture dept. Farmers' bulletin 195)

Treatment of small places; use of plants about a dwelling; school gardens and how to plan them; general cultural suggestions; hot-beds; cold frames and pits and their management; descriptions of 55 annual flowering plants.

— **Beautifying the home grounds.** 1904. 24 p. illus. (Agriculture dept. Farmers' bulletin 185)

Equally useful in beautifying the school grounds. It discusses the planting plan, walks and drives, the greensward, selection and uses of shrubs, trees, grasses, and vines, and gives cultural suggestions.

— **The home fruit garden; preparation and care.** 1905. 16 p. illus. (Agriculture dept. Farmers' bulletin 154)

Advantages; cultivation; methods of adapting plants to conditions; the combined fruit and vegetable garden; allotments of fruits for gardens of different sizes. Very useful in establishing garden clubs.

**Metcalf, Haven.** Diseases of ornamental trees. 1907. 11 p. illus. (Agriculture dept. Yearbook, 1907. Reprint 463) 5 cts.

The description is non-technical, and means for prevention and treatment are given.

**Bagan, W. H.** The home vineyard, with special reference to northern conditions. Reprint, 1907. 22 p. illus. (Agriculture dept. Farmers' bulletin 156) 5 cts.

Location, cultivation, varieties to plant, insect enemies and remedies for them.

Equally useful for home, school, club, or other demonstration work.

**Schreiner, Oswald, Skinner, J. J., Corbett, L. C., and Mulford, F. L.** Lawn soils and lawns. 1912. 48 p. illus. (Agriculture dept. Farmers' bulletin 494)

Lawns, their improvement, soil requirements, fertilization, soils suited for filling-in or top dressing, etc.

Very practical and useful in secondary schools.

**Thompson, Charles Henry.** Ornamental cacti: their culture and decorative value. 1912. 24 p. illus. (Agriculture dept. Plant industry bureau. Bulletin 262)

A practical handbook.

## FORESTRY.

**Assistance to private owners in the practice of forestry.** 1912. 8 pp. (Agriculture dept. Forest service. Circular 208) 5 cts.

What owners need to know; where they may get help; how the Forest service helps them. Use for teaching material.

**Baker, Hugh P.** Native and planted timber of Iowa. 1908. 24 p. illus. (Agriculture dept. Forest service. Circular 154) 5 cts.

Need and practical directions for woodlot management in the state. Useful locally in rural high and agricultural schools.

**Clothier, George L.** Forest planting and farm management. 1909. 21 p. diagrams. (Agriculture dept. Farmers' bulletin 228) 5 cts.

Practical directions for systematic forestation of the farm. Useful for agricultural schools.

**Fetherolf, James M.** Forest planting on the northern prairies. 1908. 28 p. diagrams. (Agriculture dept. Forest service. Circular 145)

The directions are practical and readily understandable. Useful locally in rural high and agricultural schools.

Forest planting in the sandhill region of Nebraska. Reprint, 1909. 4 p. (Agriculture dept. Forest service. Circular 37)

Practical directions for the cultivation of Western yellow and jack pine in the country. Useful locally in rural high and agricultural schools.

Forest planting leaflets. (Agriculture dept. Forest service) 5 cts. each.

A series of simply-written articles, more than 200 in number, averaging about 4 pages long. Takes up various questions incident to raising and marketing forest products. Discusses many kinds of trees with the grower's viewpoint in mind. A series of practical rather than of general pedagogic value. Circulars, 55-95 incl.

**Graves, Henry S., and Zeigler, E. A.** The woodman's handbook. Rev. and enl. 1912. 208 p. illus. 16°. (Agriculture dept. Forest service. Bulletin 36) 25 cts.

Mainly tables and description of instruments used by working foresters; valuable in field work.

**Kellogg, R. S.** Forest planting in Illinois. 1910. 32 p. diagrams. (Agriculture dept. Forest service. Circular 81, rev.) 5 cts.

Tells the kinds of trees best adapted to planting in the prairie sections; how to plant, cultivate, etc. Useful for rural high and agricultural schools in Illinois, Missouri, and Iowa.

Forest planting in western Kansas. 1909. 51 p. illus. (Agriculture dept. Forest service. Circular 161) 5 cts.

Kinds of trees best adapted to the country and methods of treatment which have been most successful. Useful locally in rural high and agricultural schools.

**Miller, Frank G.** Forest planting in the North Platte and South Platte valleys. 1902. 20 p. (Agriculture dept. Forest service. Circular 109) 5 cts.

Need and methods of planting; how to cultivate; trees to choose. Useful locally in agricultural and rural schools, elementary and advanced; also for "city beautiful" campaigns in the region.

**Pettis, C. R.** How to grow and plant conifers in the northeastern states. 1909. 36 p. illus. (Agriculture dept. Forest service. Bulletin 76) 10 cts.

Useful locally in rural high and agricultural schools.

**Pinchot, Gifford.** A primer of forestry. Part I. 1903. 47 p. illus. (Agriculture dept. Farmers' bulletin 173)

Part II. 1909 48 p. illus. (Agriculture dept. Farmers' bulletin 358)

Part I discusses the life of a tree; community life of trees in the forest; the life of a forest; enemies of the forest.

Part II has the subtitle, "Practical forestry." It discusses forest management; work in the woods; the weather and the streams; and forestry abroad and at home.

This primer is written in a non-technical style which imparts much information in a condensed but readable manner. It is suitable for any nature-study class except possibly the most elementary.

**Plummer, Fred. G.** Forest fires; their causes, extent, and effects, with a summary of recorded destruction and loss. 1912. 39 p. (Agriculture dept. Forest service. Bulletin 117) 10 cts.

**Record, Samuel J.** Suggestions to woodlot owners in the Ohio valley region. 1908. 15 p. (Agriculture dept. Forest service. Circular 138).

"The purpose of this circular is to supply the great and increasing demand of farmers and others in the Ohio Valley region for information concerning the proper management of their timberlands." The directions given are simple and in non-technical language. Useful locally in rural high and agricultural schools.

**Silvical leaflets.** (Agriculture dept. Forest service) 5 cts. each.

A series, beginning in 1907, in which each issue deals with some one tree. More than 60 common trees have now been thus dealt with. Each tree is discussed with reference to its range and occurrence; climate in which it thrives; its associated species; habits; the soil and moisture it needs; its tolerance, growth and longevity; susceptibility to injury; reproduction; utilization, and management.

The leaflets, which are generally three to four pages in length, are written in non-technical language.

Write to the Forest service, asking for those leaflets dealing with the trees of your locality.

**Suggestions for forest planting on the semi-arid plains.** 1907. 15 p. (Agriculture dept. Forest service. Circular 99) 5 cts.

Need and methods of planting and cultivation of trees in parks, school grounds, etc., of western portions of Kansas, Nebraska, and Oklahoma; northwest Texas; eastern Colorado and New Mexico. The 12 kinds of trees to plant. Useful locally in advanced work and in "city beautiful" campaigns.

**Woolsey, Theodore S., jr.** Western yellow pine in Arizona and New Mexico. 1911. 64 p. illus. (Agriculture dept. Forest service. Bulletin 101) 15 cts.

Description of the species and of Government methods in cultivating it; many practical suggestions to private owners. Useful locally in rural high and agricultural schools.

## ANIMAL PRODUCTION.

### ANIMAL HUSBANDRY.

**Allen, E. W.** The feeding of farm animals. Rev. ed. 1897. 32 p. (Agriculture dept. Farmers' bulletin 22)

Principles; calculation of rations; selection and preparation of feeding stuffs, etc. This work has its greatest value when studied in connection with the actual care of a herd or flock.

**Alvord, Henry E.** Breeds of dairy cattle. 1899. 48 p. illus. (Agriculture dept. Farmers' bulletin 106)

Origin, history, characteristics, milk and butter records, and types of 10 select breeds: comparison of dairy breeds; points observed in judging dairy cattle, etc. Popularly written; valuable in agricultural and rural high schools.

— The dairy herd: its formation and management. Revised, 1904. 29 p. (Agriculture dept. Farmers' bulletin 55)

Consists entirely of practical directions.

— Dairying at home and abroad. 1902. 10 p. illus. (Agriculture dept. Yearbook. Reprint 260) 5 cts.

Compares "the means, methods and practices" of the dairy in Europe with those of the United States. An interesting paper, useful in advanced work.

**Ayers, S. Henry.** The pasteurization of milk. 1912. 44 p. illus. (Agriculture dept. Animal industry bureau. Circular 184) 5 cts.

Meaning, value, and methods, with especial reference to the farm. See also (for city dwellers) Directions for the home pasteurization of milk. (Animal industry bureau. Circular 197) 5 cts.

**Boss, Andrew.** Meat on the farm: butchering, curing, and keeping. Revised, 1906. 37 p. illus. (Agriculture dept. Farmers' bulletin 183)

By an eminent authority. Suitable for agricultural and rural high schools.

### Dairy products.

The Bureau of animal industry, Department of agriculture, has issued a large number of publications on the manufacture and care of dairy products, especially of milk and cheese. Write for the specific information desired.



**Diseases.**

The Bureau of animal industry has issued large numbers of papers dealing with specific diseases of domestic animals and poultry, as well as publishing two large books, one devoted entirely to diseases of the horse, the other to those of cattle. Write direct for the information you want.

Osborn, Herbert. Insects affecting domestic animals. 1896. 302 p. illus. (Agriculture dept. Entomology bureau. Bulletin 5) 20 cts.

A systematic manual, suitable for detailed advanced work; gives remedial and protective treatments.

Rabild, Helmer. Cow-testing associations. 1911. 24 p. (Agriculture dept. Animal industry bureau. Circular 179) 5 cts.

History; need for them; how to organize them; and results.

Rommell, George M. American breeds of beef cattle with remarks on pedigrees. 1902. 34 p. illus. (Agriculture dept. Animal industry bureau. Bulletin 34) 20 cts.

Gives also list of breeders' organizations, and tells how to make out a pedigree and how to keep a herdbook.

Market classes of horses. 1902. 32 p. illus. (Agriculture dept. Animal industry bureau. Bulletin 37) 15 cts.

Gives description of and tells demand for each class. No attempt specifically to discuss breeding or fitting for market.

Suggestions for horse and mule raising in the south. 1906. 15 p. (Agriculture dept. Animal industry bureau. Circular 124) 5 cts.

Why the industry should be developed in that section, and how.

White, B. D. A simple method of keeping creamery records. 1908. 12 p. (Agriculture dept. Animal industry bureau. Circular 128) 5 cts.

**POULTRY AND BEES.**

Bell, G. Arthur. Poultry management. 1907. 48 p. (Agriculture dept. Farmers' bulletin 287)

"Prepared from the practical standpoint and technicalities have been avoided as much as possible." Highly valuable for club work.

Howard, George E. Ducks and geese: standard breeds and management. Revised, 1906. 55 p. illus. (Agriculture dept. Farmers' bulletin 64)

Describes 8 standard breeds of ducks and 6 standard breeds of geese; in most cases a picture of the breed accompanies the description. Gives also practical directions for running a duck and goose plant.

Standard varieties of chickens. Revised, 1907. 46 p. illus. (Agriculture dept. Farmers' bulletin 51)

Describes 44 varieties, also giving picture of each type, with cut of feathers.

NOTE.—The Animal industry bureau has also issued special bulletins on the Plymouth Rock and the White Wyandotte respectively.

Lamon, Harry M. Hints to poultry raisers. 1913. 12 p. illus. (Agriculture dept. Farmers' bulletin 528) 5 cts.

A collection of crisp notes.

The organization of girls' poultry clubs. 1913. 11 p. illus. (Agriculture dept. Animal industry bureau. Circular 208) 5 cts.

Organization methods, management of flocks, marketing, bibliography. A very compact and useful circular.

and Opperman, Charles L. The care of the farm egg. 1913. 52 p. illus. (Agriculture dept. Animal industry bureau. Bulletin 160) 15 cts.

"A general study from a practical standpoint of the deterioration occurring in the various classes of fertile and infertile eggs when kept on the farm under different environmental conditions." Useful in advanced work.



## 22 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Langworthy, C. F.** The guinea fowl and its use as food. 1905. 24 p. illus. (Agriculture dept. Farmers' bulletin 234)

Possibly the most thorough-going work extant on the subject.

**Lee, Alfred E.** Fattening poultry. 1911. 60 p. illus. (Agriculture dept. Animal industry bureau. Bulletin 140) 10 cts.

Very practical and reliable.

**McGrew, T. F.** Turkeys: standard varieties and management. 1904. 40 p. illus. (Agriculture dept. Farmers' bulletin 200)

History, selection and treatment of breeding stock, egg laying and hatching, raising and feeding, marketing, parasites and diseases, etc.

Very practical.

**Pennington, M. E.** Practical suggestions for the preparation of frozen and dried eggs. 1912. 12 p. illus. 4°. (Agriculture dept. Chemistry bureau. Circular 98) 5 cts.

"Contains many suggestions which will undoubtedly be of great value to the industry and helpful to the consumer."

— **Studies of poultry from the farm to the consumer.** Reprint. 1911. 42 p. illus. (Agriculture dept. Chemistry bureau. Circular 64)

A review of the scientific work; the industrial application of refrigeration; and "a very suggestive section on the application of the scientific data so far obtained to industrial uses." Understandably written.

— **and Betts, H. M. P.** How to kill and bleed market poultry. 1910. 15 p. illus. (Agriculture dept. Chemistry bureau. Circular 61)

"A simple anatomical study, for the betterment of present practices." Gives improved killing methods.

— **and Pierce, H. C.** The effect of the present method of handling eggs on the industry and the product. 1911. 14 p. illus. (Agriculture department. Yearbook. Reprint 552)

Marketing methods and how they may be improved. An interesting article; valuable for club work.

**Phillips, E. F.** The status of apiculture in the United States. 1909. 21 p. (Agriculture dept. Entomology bureau. Bulletin 75, part 6) 5 cts.

Good teaching material for a lesson in commercial geography; may also serve to interest children in bee-keeping for themselves.

— **Bees.** 1911. 48 p. illus. (Agriculture dept. Farmers' bulletin 447)

Full of practical information for those keeping bees, whether for pleasure or profit. Contains also a list of publications of the Dept. of agriculture on bee-keeping.

— **The rearing of queen bees.** 1905. 32 p. illus. (Agriculture dept. Entomology bureau. Bulletin 55) 5 cts.

Explicit directions and simple methods. A very practical book.

— **and Browne, C. A.** (1) Production and care of extracted honey; (2) methods of honey testing for bee keepers. 1907. 18 p. (Agriculture dept. Entomology bureau. Bulletin 75, part 1) 5 cts.

Plainly written and very practical.

**Rice, William E.** Squab raising. Revised, 1904. 31 p. illus. (Agriculture dept. Farmers' bulletin 177)

The subject is treated "from a practical standpoint only, drawing largely from personal experience." Discusses buildings, varieties of pigeons, breeding, feeds and feeding, other details of management, killing and dressing, diseases, parasites and remedies, causes of chilled eggs and dead squabs, suggestions regarding the purchase of breeding stock.

**Salmon, D. M.** Important poultry diseases. 1912. 26 p. (Agriculture department. Farmers' bulletin 530)

The book tells the how to prevent disease and how to make and apply the powders and disinfectants.

Wood, Richard H. Incubation and incubators. 1905. 31 p. illus. (Agriculture dept. Farmers' bulletin 238)

The process; kinds of incubators; how to operate, etc.

#### FARM ECONOMICS.

Hill, George G. Marketing farm produce. 1903. 31 p. illus. (Agriculture dept. Farmers' bulletin 62)

"Practical suggestions relating to the preparation of meats, fruits, and vegetables for the market, especially as regards packing."

Smith, C. Beaman, and Froby, J. W. Replanning a farm for profit. 1909. 36 p. (Agriculture dept. Farmers' bulletin 370)

New lines of farming to take up when the old ones have become unprofitable; sample plans from Illinois. For advanced work.

Spillman, W. J. Renovation of wornout soils. 1906. 16 p. (Agriculture dept. Farmers' bulletin 245)

Best methods. Useful for rural high and agricultural schools.

Types of farming in the United States. 1908. 15 p. (Agriculture dept. Yearbook. Reprint 487) 5 cts.

Written for city people who are thinking of taking up farming. Also useful to students of farm management in college or high schools.

Thompson, Edward H. Farm bookkeeping. 1912. 37 p. illus. (Agriculture dept. Farmers' bulletin 511)

Discusses need for the farmer to keep books, and methods; gives specimen accounts.

#### FARM ENGINEERING.

Bowman, Isaiah. Well-drilling methods. 1911. 139 p. illus. (Interior dept. Geological survey. Water supply paper 257) 15 cts.

Possibly the best manual in English on the subject. Tells how to drill for water, oil, and gas; gives a history of well-drilling and discusses geologic formations bearing water, oil, and gas.

Elliott, C. G. The drainage of farm lands. 1904. 38 p. illus. (Agriculture dept. Farmers' bulletin 187) 5 cts.

Deals particularly with underdrainage, but also touches on open drains and irrigation. Useful in agricultural and rural high schools.

Fortier, S. Practical information for beginners in irrigation. 1906. 40 p. illus. (Agriculture dept. Farmers' bulletin 263)

Arid soils; how to locate and build farm ditches; how to prepare the land to receive water; how to irrigate the crops; and how much water to apply. Written especially for new settlers.

Hill, George G. Practical suggestions for farm buildings. 1903. 48 p. illus. (Agriculture dept. Farmers' bulletin 128) 5 cts.

Goes into every phase of building farm houses and barns. The cost estimates, of course, are now out of date.

King, D. Ward. The use of the split-log drag on earth roads. 1908. 14 p. illus. (Agriculture dept. Farmers' bulletin 321)

Describes an economical method of keeping the ordinary country road in good condition.

Wormeley, Philip L., Jr. Cement mortar and concrete; preparation and use for farm purposes. 1905. illus. (Agriculture dept. Farmers' bulletin 235) 5 cts.

Very practical; should be used in agricultural and rural high schools in connection with the actual work.

## FOOD.

**Abel, Mary Hinman.** Beans, peas, and other legumes as food. Revised, 1906. 38 p. illus. (Agriculture dept. Farmers' bulletin 121)

Also treats of lentils and peanuts; cost and food value as compared with other foods.

— Care of food in the home. 1910. 46 p. illus. (Agriculture dept. Farmers' bulletin 375)

Deals with all kinds of foods in both city and country homes. "In this bulletin Mrs. Abel has summarized the results of experiments and tests specially undertaken for it, as well as experience acquired in the practical handling of such problems."

— Sugar as food. 1906. 31 p. (Agriculture dept. Farmers' bulletin 93)

A useful summary: extent of use; chemical composition; sources; food value; practical use in dietaries of adults and children; and results.

**Atwater, Helen W.** Bread and bread making. 1910. 47 p. illus. (Agriculture dept. Farmers' bulletin 389)

Gives a number of methods to make bread of various kinds; discusses flours; food values, etc.

— Poultry as food. Reprint, 1909. 39 p. (Agriculture dept. Farmers' bulletin 182)

Varieties; feeding and fattening in relation to food value; dressing and marketing; marks of good poultry; cooking methods; composition; digestibility; nutritive value; cost; comparisons with other foods; place in the diet.

**Atwater, W. O., and Bryant, A. P.** The chemical composition of American food materials. 1906. 87 p. illus. (Agriculture dept. Experiment stations office. Bulletin 28, rev.) 10 cts.

**Barrows, Anna.** Course in the use and preparation of vegetable foods, for movable and correspondence schools of agriculture. 1912. 98 p. (Agriculture dept. Experiment stations office. Bulletin 245) 10 cts.

Fifteen lectures. But "the course is a study course." By it the students are shown where to get information. They are then expected to look up the references for themselves and apply the teachings.

**Bigelow, W. D., and Howard, Burton J.,** Some forms of food adulteration and simple methods for their detection. 1906. 59 p. (Agriculture dept. Chemistry bureau. Bulletin 100) 10 cts.

Simply written.

**Bitting, A. W.** The canning of peas. 1909. 32 p. illus. (Agriculture dept. Chemistry bureau. Bulletin 125) 10 cts.

A good account of the industry as well as of the process; contains some facts which may be suggestive to canning clubs.

— Experiments on the spoilage of tomato ketchup. 1909. 37 p. illus. (Agriculture dept. Chemistry bureau. Bulletin 119) 10 cts.

Written in a fairly popular manner. Tells conditions contributing to spoilage, methods of prevention, action of preservatives, and length of time ketchup will keep under varying conditions.

**Brussale, J. F.** Canning vegetables in the home. 1909. 16 p. illus. (Agriculture dept. Farmers' bulletin 359)

Very useful in club work.

— **and Benson, O. H.** Canning tomatoes at home and in club work. 1913. 36 p. illus. (Agriculture dept. Farmers' bulletin 521)

Recipes and methods; how clubs are organized and contests managed.

**Carlson, Mark Alfred, and Chamberlain, Joseph S.** 1904. 70 p. illus. (Agriculture dept. Plant industry bureau. Bulletin 70) 10 cts.

Chiefly valuable to the teacher for its excellent recipes for macaroni and semolina dishes, on p. 52-61.

Farm and home mechanics, some things that every boy should know how to do and hence should learn to do in school. 1911. 48 p. illus. (Interior dept. Indian affairs office) 15 cts.

Drawings and directions for making 29 common farm articles; 28 common farm processes, with directions for learning them.

General results of the investigations showing the effect of boric acid and borates upon digestion and health. 1904. 27 p. 5 cts. (Agriculture dept. Chemistry bureau. Circular 15)

See also Salicylic acid and salicylates. 1906. 12 p. 5 cts. Sulphurous acid and sulphites. 1907. 18 p. illus. 5 cts. Benzoic acid and benzoates. 1908. 16 p. illus. 5 cts. Formaldehyde. 1908. 16 p. illus. 5 cts.

The above-named circulars of the Chemistry bureau (nos. 31, 37, 39 and 42) popularize three bulletins giving the technical details of investigations into the action of these chemicals on foods.

Gordon, Martha H. Cookery for workingmen's wives, as taught in Mrs. John Elder's domestic cookery classes, at Govan, near Glasgow, Scotland. In Treasury department. Monthly consular and trade reports, no. 107, August, 1889. 28 p. 15 cts.

Contains instructive preface, with general directions: Plain household cookery (55 recipes)—Fish (12 recipes)—Puddings (32 recipes)—Bread, scones, and cakes (24 recipes): Sick room cookery (18 recipes)—General directions for roasting and frying, with hints on waste—Washing—Sanitation—First aid to the sick. Old but good.

Gore, H. C. Unfermented apple juice. 1908. 23 p. illus. (Agriculture dept. Chemistry bureau. Bulletin 118) 5 cts.

Gives a method of keeping apple juice sweet without the use of artificial preservatives. Non-technically written.

Gould, H. F. Evaporation of apples. 1907. 38 p. illus. (Agriculture dept. Farmers' bulletin 291)

Describes the various methods of drying apples to save the lower and less desirable grades from waste.

— and Fletcher, W. F. Canning peaches on the farm. 1910. 26 p. illus. (Agriculture dept. Farmers' bulletin 428)

Extent of the industry, equipment, practical directions for canning and marketing.

Howard, B. J. Tomato ketchup under the microscope: With practical suggestions to insure a cleanly product. 1911. 14 p. (Agriculture dept. Chemistry bureau. Circular 68) 5 cts.

Written in fairly popular manner.

Jaffa, M. S. Nuts and their uses as food. 1908. 28 p. illus. (Agriculture dept. Farmers' bulletin 332)

Deals also with nut products—bitters, milk, pastes, preserves, flours, meals, candy, coffee, and oils.

Langworthy, C. F. Eggs and their uses as food. Revised, 1906. 40 pp. (Agriculture dept. Farmers' bulletin 128) 5 cts.

Discusses also deacidified eggs; egg powders; and egg substitutes; importance and growth of the industry.

— Fish as food. Revised, 1907. 32 p. (Agriculture dept. Farmers' bulletin 85)

Preparation for market; nutritive value; place in the diet; specimen menus; possible dangers.

— Food charts. Composition of food materials [etc.] 1910. 15 charts, each about 23.6 x 17.9 in. (Agriculture dept. Experiment stations office) Per set of 15 charts, \$1.

Contents.—1. Milk and milk products.—2. Eggs and cheese.—3. Meat, fresh and cured.—4. Fish, fish products, and oysters.—5. Butter and other fat-yielding foods.—6. Cereal grains.—7. Bread and other cereal foods.—8. Sugar and similar foods.—9. Roots and succulent vegetables.—10. Legumes and corn.—11. Fresh and dried fruits.—12. Fruit and fruit products.—13. Nuts and nut products.—14. Composition, functions, and uses of food.—15. Dietary standards.

The charts are composed of illustrations of the various articles discussed, the elements appearing in colors.

**Langworthy, O. F.** Food customs and diet in American homes. 1911. 82 p.

(Agriculture dept. Experiment stations office. Circular 110) 5 cts.

An interesting popular discussion of our food habits and their origin; the American diet as compared with that of foreigners; its adequacy, etc.

— The functions and uses of food. Revised, 1906. 11 p. (Agriculture dept. Experiment stations office. Circular 46) 5 cts.

A brief popular discussion of the principles which should underlie one's choice of diet. Sample menus, tables showing composition of foods, etc.

— Potatoes and other root crops as food. 1907. 45 p. illus. (Agriculture dept. Farmers' bulletin 295)

Discusses nearly 20 vegetables.

— Use of fruit as food. 1907. 38 p. illus. (Agriculture dept. Farmers' bulletin 293)

"A summary of the composition, food value, and place in the diet of fresh and preserved fruits, particularly those of temperate regions commonly grown in the United States." Nontechnically written.

— **and Hund, Caroline L.** Cheese and its economical uses in the diet. 1912. 40 p. (Agriculture dept. Farmers' bulletin 487)

The food value of cheese; kinds used in America; its care; recipes, etc.

— Economical use of meat in the home. 1910. 30 pp. (Agriculture dept. Farmers' bulletin 391)

Value of meat as food; real cost of different cuts; how to reduce expense for meat in the diet; recipes.

— Mutton and its value in the diet. 1913. 32 p. illus. (Agriculture dept. Farmers' bulletin 526)

Also discusses care, cuts, and economy; gives many good recipes.

— Lessons in cooking for the sick and convalescent. 1913. 32 p. (Interior dept.) 5 cts.

The only publication entirely devoted to this subject.

— **Milner, R. D.** The use of milk as food. 1909. 44 p. illus. (Agriculture dept. Farmers' bulletin 363)

Discusses composition; digestibility; care of milk in the home; use in cooking; and economy as compared with other foods. There is also a summary of some general information on milk products.

— **Mitchell, Margaret J.** Course in cereal foods and their preparation for movable schools of agriculture. 1908. 78 p. (Agriculture dept. Experiment stations office. Bulletin 200) 10 cts.

Syllabus of 15 lectures, with an equal number of practice exercises; list of reference works; necessary apparatus, etc.

— Outline lessons in housekeeping, including cooking, laundering, dairying, and nursing, for use in Indian schools. 1911. 23 p. illus. (Interior dept. Indian affairs office) 5 cts.

Contains also estimates for equipment and lists of reference and textbooks. The outlines consist only of subject heads.

— **Parson, Maria.** Canned fruit preserves and jellies: household methods of preparation. 1906. 31 p. (Agriculture dept. Farmers' bulletin 203) 5 cts.

Practical directions for home canning.

— Preparation of vegetables for the table. 1906. 48 p. (Agriculture dept. Farmers' bulletin 256)

A general discussion, followed by specific instructions and receipts covering about 45 vegetables.

— **Pattick, G. E.** Household tests for the detection of oleomargarine and renovated butter. 1901. 11 p. (Agriculture dept. Farmers' bulletin 131)

Tells the how renovated butter is made.



**Rogers, L. A.** Bacteria in milk. 1912. 23 p. illus. (Agriculture dept. Farmers' bulletin 490)

Sources of bacteria in milk; factors favoring their development; what they do; the proper handling and care of milk. Especially useful in rural high and agricultural schools.

Some things that girls should know how to do and hence should learn how to do when in school. 1911. 23 p. (Interior dept. Indian affairs office) 5 cts.

Suggestions in equipment; outlines of 41 exercises in equipment and preparation of food; of 8 in care and equipment of bedrooms; of 6 in housekeeping suggestions; of 13 in cleaning; of 13 in sewing; of 10 in laundering; of 8 in dairying; of 7 in care of the sick; and of 8 in the care of camp animals.

Synopsis of course in sewing. 1911. 38 p. illus. (Interior dept. Indian affairs office) 10 cts.

Illustrated directions for 17 sewing operations, from hemming to tacking; followed by outline lessons to cover 6 terms.

Teaching rudiments of cooking in classroom, primary methods and outlines for use of teachers in Indian schools. 1906. 62 p. (Interior dept. Indian affairs office) 10 cts.

Indicates the correlation of cooking, nature study, and hygiene. Specific directions for each of the first four years; general directions for fifth year and upward. A combination of syllabus, questionnaire, outline, and directions to teachers. An appendix contains syllabi of similar courses given in 3 other schools.

**Webster, Edwin H.** Butter making on the farm. 1905. 31 p. (Agriculture dept. Farmers' bulletin 241)

Well-defined rules, "which, if followed, will insure success."

**Whittaker, George M., Rogers, L. A., and Hunt, Caroline L.** The care of milk and its use in the home. 1910. 20 p. (Agriculture dept. Farmers' bulletin 413)

How to care for milk in the home; home pasteurization; food value. Very practical and useful in any domestic science course.

**Woods, Charles D.** Food value of corn and corn products. 1907. 40 p. illus. (Agriculture dept. Farmers' bulletin 298)

Deals with digestibility, wholesomeness and economy of corn and all manner of corn foods. Nontechnical.

Meats: composition and cooking. Revised, 1904. 31 p. illus. (Agriculture dept. Farmers' bulletin 34)

Structure, texture, flavor, digestibility, and food values of meats; diagrams of the various cuts. Exhaustive tables. Useful both as text and reference work.

and **Snyder, Harry.** Cereal breakfast foods. 1906. 36 p. (Agriculture dept. Farmers' bulletin 249)

Grains used; value and cost as compared with other foods; how to make home-made cereal foods and coffee substitutes.

## ECONOMICS.

Abstracts of reports of Immigration commission. 1910. 2 vols. 902+900 p. (61st Cong. 3d sess. Senate doc. no. 747) Each vol. 60 cts.; buckram, 75 cts.

Includes Commission's complete reports on immigration conditions in Hawaii, immigration and insanity, immigrants in charity hospitals, alien seamen and stowaways, contract labor and induced and assisted immigration, the Greek pedone system in United States, and peonage. A digest of some 40 volumes of reports.

**Anderson, G. E.** Railway situation in China. 1911. 32 p. (Commerce dept. Foreign and domestic commerce bureau. Special consular reports, no. 43) 5 cts.

A general survey of conditions; detailed study of the five principal groups, and statement of opportunities for Americans. An informative and very interesting paper.



**Census bureau. Bulletins.**

The bulletins of the 13th census (1910) were issued in the following series: Population, 2 series, one giving population of cities, counties, and minor civil divisions with comparative statistics for 1890, 1900, and 1910, and the other giving composition and characteristics of population, namely, color, nativity, sex, illiteracy, etc.; Agriculture, 2 series, one giving statistics for states and counties, and the other giving statistics concerning farms and farm property, live stock, principal crops and farm expenses; Manufactures; Irrigation. Each bulletin in the several series contains statistics for one state or territory, and is sold for the uniform price of 5 cents. Bulletins and other publications not included in these series are listed below:

Abstract of census, statistics of population, agriculture, manufactures, and mining for United States, states and principal cities; with supplement for Maine containing statistics for state, counties, cities and other divisions. 1912. 643 p. illus. 4°. Cloth, \$1.

Other editions will be issued having for supplements statistics for the other states.

Center of population and median lines, continental United States. 8 p. 5 cts.

Manufactures, United States, abstract of statistics of manufactures for states, cities, and industries. 96 p. 4°. 10 cts.

Population, New York city, number of inhabitants by enumeration districts. 23 p. 5 cts.

Population, United States, abstract, age, and marital condition. p. 121-167. 4°. [From 13th census, 1910, Abstract] 5 cts.

Population, United States, abstract, color or race, nativity, parentage, and sex. p. 77-119. illus. 4°. [From 13th census, 1910, Abstract] 5 cts.

Population, United States, abstract, state of birth of native population. p. 169-186. illus. 4°. [From 13th census, 1910, Abstract] 5 cts.

Population, United States, population of cities. 46 p. 5 cts.

Population, United States, population of counties and equivalent subdivisions. 30 p. 5 cts.

Population, United States, population of incorporated places. 111 p. 4°. 15 cts.

Statement showing result of enumeration according to 13th decennial census, taken Apr. 15, 1910. 2 p. (61st Cong., 3d sess. Senate doc. no. 704) 5 cts.

NOTE.—A summary of population by states.

Statistics for Maine containing statistics of population, agriculture, manufactures and mining for state, counties, cities and other divisions. 1913. p. 563-643. illus. 4°. 15 cts.

NOTE.—This is a reprint of the Supplement for Maine published with Abstract of census.

Convict labor. 1906. 794 p. (Commissioner of labor. 20th annual report)

Valuable for detailed advance work.

**Department of labor. Bulletins.**

The members of this series appeared regularly every other month till May 1912. They constitute an invaluable file to the student of economics. A list of the leading articles which appear in the periodical will be sent on application to the Department of labor.

Exports of manufactures from United States and their distribution by articles and countries, 1890 to 1906. 63 p. 4°. (Commerce dept. Statistics bureau) 10 cts.

Gannett, Henry. Statistical atlas of the United States, based upon results of 12th census of the United States, 1900. 91 p. illus. maps. 4°. (Interior dept.) Cloth, \$4.00.

This report contains over 200 plates, many of them colored, showing graphically statistics as regard to age and sex, distribution, nationality, literacy, etc., of population, also agricultural and manufactured products, etc.

**Hand and machine labor.** 1898. 426 p. (Commissioner of labor. 18th annual report) Cloth, 35 cts.

Report compares the operations necessary in producing an article by the old-fashioned hand process and by the most modern machine methods, showing the time consumed and labor cost for each operation under the two systems. Good for detailed advanced work.

**Hirst, F. W., and Paish, George.** Credit of nations. Trade balance of the United States. 1910. 213 p. table. (61st Cong., 2d sess. Senate doc. 579) 30 cts.

Among other things, Mr. Hirst traces the growth of public debt in England, France, Germany, United States, and the Confederate states of America, local as well as national debts being considered. Mr. Paish explains the various factors entering into the trade balance of countries, such as investments of capital and interest payments, freight charges, tourist expenses, and remittances to friends, etc.

Non-technically written.

**Holmes, George K.** Systems of marketing farm products and demand for such products at trade centers. 1913. 389 p. (Agriculture dept. Report 98) 25 cts.

For detailed advance work only.

**Industrial commission.** Final report. 1902. 1,269 p. illus. 8°. Cloth, \$1.

Discusses agriculture, mining, transportation, manufactures, trade and commerce, industrial combinations, labor, immigration, taxation, irrigation, etc.

While much of the matter is now out of date, this report still constitutes a valuable reference book for advanced work. It was originally drawn up to provide Congress with a basis for legislation.

**Industrial education.** 1910. 822 p. (Commissioner of labor. 25th annual report) 55 cts. Cloth, 70 cts.

Describes and gives the history of each type of industrial school; then covers the ground for each individual institution.

**Information for immigrants concerning the United States, its opportunities, government and institutions; prepared by National society of sons of American Revolution.** 1908. 7 p. 12°. (Labor dept. Immigration bureau) 5 cts.

**Information respecting United States bonds, paper currency, coin production of precious metals, etc.** July 1, 1912. 1913. 104 p. (Treasury dept. Circular 52) 10 cts.

Contains history of United States bonds since 1865; account of the sinking fund; history of coins and currency; account of national bank currency; statistics of coinage and production of the precious metals; government receipts and disbursements; imports and exports of the United States; recent acts of Congress touching currency and the national banks, etc. Very valuable in advanced work for reference use.

#### International commerce.

The daily opuscular and trade reports contain a running account of America's fight for world markets. All daily numbers for 3 months, with title page and index, bound in booklets, \$2.00. Reports of special agents, covering some one particular industry or industrial development, here or abroad, sell at varying prices. Both publications are issued by the Foreign and domestic commerce bureau. While written primarily for the benefit of the business man, they also contain much material of value to teachers of commercial geography.

**Labor department. Immigration bureau. Bulletin.** Per issue, 5 cts.

Immigration bulletin, issued monthly, gives full statistics as to immigrant aliens admitted and emigrant aliens departed, according to race, occupation, country, etc., number deferred and for what cause, and other pertinent information.

**Manson, J. O.** Fiscal systems of England, France, Germany, and United States. 1910. 86 p. (61st Cong., 2d sess. Senate doc. 408) 15 cts.

A report upon the manner of receiving, handling, and disbursing public moneys in the several countries, based upon personal investigations in Europe by Mr. Manson. Attention is given to the assistance rendered by banks in fiscal operations of the various countries.

A very good understandable exposition.

**The monetary systems of the world.** 1913. 51 p. (Treasury dept. Document 2675) 5 cts.

Valuable for reference in advanced work.

**Monthly summary of commerce and finance.**

This publication, issued by the Statistics bureau, Commerce department, gives statistics concerning foreign commerce of United States, classifying imports and exports by articles, trade of United States with noncontiguous territory, and internal commerce, classified by sections. Subscription per year: Domestic, \$2.50; foreign, \$3.70. Single numbers vary in price.

**National conservation commission.** Report with accompanying papers. 1909. 3 vols. illus. (60th Cong., 2d sess. Senate doc. 676) Paper, the set, \$1.95.

Goes into conservation from every standpoint, telling what we have, what we use and waste, where we stand, and what we need to do. Takes up forests, lands, mineral resources, and life. Special articles by experts, Government and others, include: Crop yield per acre; The origin of cultivated plants; Waste of structural material from fire and other causes; Estimates of future population (in the United States); Transportation by water; Distribution of rainfall, etc.

The papers are authoritative, illuminating, and for the most part well written. They contain teaching material also for geography, history, civics, and agriculture.

The whole work is so planned that "Vol. 1 covers the subjects water resources, forests, lands, mineral resources, and proceedings of Joint conservation commission; vol. 2 includes water resources and forest conservation; vol. 3 includes conservation of agricultural and mineral resources and public lands, and report on national vitality, its wastes and conservation."

**Naturalization of aliens in United States, how to become citizens, what is required, rights and duties; prepared by National society of sons of American Revolution.** 1909. 8 p. 12° (Labor dept. Immigration bureau) 5 cts.

**Postal savings-banks.** Notes on postal savings-bank systems of leading countries. 1910. 128 p. 6 tables. (61st Cong., 3d sess. Senate doc. 653) 25 cts.

In the United Kingdom, Canada, France, Italy, Belgium, Russia, Netherlands, Austria, Hungary, Sweden, and Egypt an account of the history and organization of the system has been given which has furnished the material for a comprehensive chart, enabling one readily to compare the most important features in the postal savings-bank systems of these countries. Withdrawal of funds from the postal savings banks, statistics showing growth of the banks, cost of administration and reports from consuls on the nature and operations of the banks, are some of the other topics discussed.

**Regulation and restriction of output [in United States and Great Britain]** 1904. 932 p. illus. (58th Cong., 2d sess. House doc. no. 734. Vol. 106; serial no. 4732) Sheep, \$1.25.

In his letter of transmittal Labor commissioner Wright says: "The question of the regulation and restriction of output, both by employers and by employees, has been the subject of much discussion, but I know of no official report dealing with the subject. In addition to the question of restriction, the information obtained and embodied herein throws much light of a new and important character upon the relations of employers and employees."

For detailed advance work only.

**Report on condition of woman and child wage earners in United States.** Vols. 1 to 17, 19. 1910-1912. (61st Cong., 2d sess. Senate doc. no. 645)

Vol. 1. Cotton textile industry. 1044 p. 75c; buckram, \$1.

Vol. 2. Men's ready-made clothing. 878 p. 65c; buckram, 80c.

Vol. 3. Glass industry. 970 p. 75c; buckram, 85c.

Vol. 4. Silk industry. 592 p. 45c; buckram, 60c.

Vol. 5. Wage-earning women in stores and factories. 384 p. 30c; buckram, 45c.

Vol. 6. Beginnings of child-labor legislation in certain states; comparative study. 225 p. 20c.

Vol. 7. Conditions under which children leave school to go to work. 309 p. 25c; buckram, 40c.

Vol. 8. Juvenile delinquency and its relation to employment. 177 p. 15c; buckram, 25c.

Vol. 9. History of women in industry in United States. 277 p. 25c; buckram, 35c.

Vol. 10. History of women in trade unions. 336 p. 20c; buckram, 35c.

Vol. 11. Employment of women in metal trades. 107 p. 10c; buckram, 25c.

Vol. 12. Employment of women in laundries. 121 p. 15c; buckram, 25c.

Vol. 13. Infant mortality and its relation to employment of mothers. 174 p. 15c.

Vol. 14. Causes of death among woman and child cotton-mill operatives. 430 p. 35c.

Vol. 15. Relation between occupation and criminality of women. 119 p. 10c; buckram, 20c.

Vol. 16. Family budgets of typical cotton-mill workers. 335 p., illus. 20c; buckram, 35c.

Vol. 17. Hookworm disease among cotton-mill operatives. 43 p. 5c; buckram, 20c.

Vol. 18. Labor laws and factory conditions. 1125 p. 80c.

Reports from American consular officers in German Empire and certain other foreign countries in regard to cooperation and cost of living. 1912. 112 p. (62d Cong., 2d sess. House doc. no. 833) 10 cts.

Includes also reports from Ecuador, Canada, Algeria, Bermuda, China, Maltese Islands, France, Azores, and Norway. Tells how cooperation lowers the living cost. Useful for teaching material; hardly for class work.

Reports on labor organizations, labor disputes, and arbitration, and on railway labor. 1901. cxxxvii, 1172 p. map, 3 tables. (Industrial commission. Report. vol. 17) Cloth, \$1.

CONTENTS.—Summary and general discussion.—National labor organizations in United States.—Collective bargaining, conciliation, and arbitration.—Laws and court decisions as to labor combinations.—Statistics of strikes and lockouts in United States and foreign countries.—Railway labor in United States.

Somewhat antedated, but contains much fundamental matter. Although compiled as a guide for Congressional legislation, it has much value from the purely economic and sociological side.

Retail prices 1890 to October, 1912-1913. 151 p. (Labor dept. Labor statistics bureau. Retail prices and cost of living series, no. 4) 10 cts.

Largely an interpreted statistical study. For advanced detail work.

Statistical abstract of the United States. (Commerce dept. Foreign and domestic commerce bureau. Annual) 50 cts.

This annual publication brings together, in exhaustive but condensed form, statistics of area, natural resources, and population; agriculture, forestry and fisheries; manufacturing and mining industries and patents; occupations, labor, and wages; internal communications and transportation; foreign and domestic commerce, with commercial failures; prices; consumption estimates; money, banking and insurance; wealth and public finance; statistical record of the progress of the United States; and statistics of the principal countries of the world. An invaluable work of reference.

Statistical record of progress of United States 1800 to 1906, and commercial and financial statistics of foreign countries, 1905, 1906. p. 650-705. (In Foreign and domestic commerce bureau. Statistical abstract of United States) 5 cts.

Statistics of unemployment and the work of employment offices. 1913. 147 p. (Labor dept. Labor statistics bureau. Miscellaneous series no. 1) 10 cts.

Strikes and lockouts. 1907. 979 p. (Commissioner of labor. 21st annual report) Valuable for detailed advance work.

Clark, Frank (of Fla.) Speech on street car extension bill, in House, Feb. 22, 1908. In Congressional record, 42: 6285-6292, May 11, 1908 9 cts.

This speech, nominally in relation to street-car extension in Washington is really a full discussion, from the southern point of view, of the relations of white and black people in this country. Appended is a reprint of a speech by John S. Beard of Pensacola, arguing that the 14th and 15th amendments to the constitution of the United States were not constitutionally proposed or constitutionally adopted, and that consequently the negro has no legal status as a citizen.

Trade guilds of Europe [with appendix containing Trade guilds of China; Trade usages in India; Technical schools in Europe; Rules and regulations of 10 trade unions in Scotland] 1885. 332 p. (State dept. Miscellaneous consular reports) 20 cts.

Wages and prices abroad. Reports from consular officers of United States at Hamburg, Germany; Manchester, England; Glasgow, Scotland; and Warsaw, Russia; and giving present retail and wholesale prices of certain commodities and prices obtaining in 1900, together with salaries paid various classes of government employees. Ordered printed 1910. 33 p. (61st Cong., 2d sess. Senate doc. 477, pt. 2) Paper, 5 cts.

Reports from consular officers of United States at Paris and Havre, France; St. Petersburg, Odessa, and Moscow, Russia; Mexico, Guadalajara, Veracruz, and Mazatlan, Mexico; Bradford, Manchester, and London, England; Dublin, Ireland; Yokohama, Japan; and giving present retail and wholesale prices of certain commodities and prices obtaining in 1900, together with salaries paid various classes of government employees. Ordered printed 1910. 33 p. (61st Cong., 2d sess. Senate doc. 477 [pt. 3]) Paper, 10 cts.



**Wages and prices abroad.** Reports from consular officers of United States at Edinburgh, Scotland; Bordeaux and Lyons, France; Munich and Frankfort-on-the-Main, Germany; Budapest, Austria; and Buenos Aires, Argentine Republic; giving present retail and wholesale prices of certain commodities. Ordered printed 1910. 22 p. (61st Cong., 2d sess. Senate doc. 477 [pt. 4]) Paper, 5 cts.

**Wilson, H. M., and Cochran, J. L.** The fire tax and waste of structural materials in the United States. 1910. 30 p. (Interior dept. Geological survey. Bulletin 418) 5 cts.

Investigation shows per capita fire loss in the United States to be eight times that in Europe; how to reduce it.

**Workmen's insurance and benefit funds in the United States.** 1909. 810 p. (Commissioner of labor. 23d annual report)

## GEOGRAPHY.

### PHYSICAL AND POLITICAL.

**Alaska.** General information regarding the territory of Alaska. 1912. 24 p. (Interior dept. Office of the secretary)

**Allen, W. N.** A course in meteorology and physical geography. 1911. 35 p. (Agriculture dept. Weather bureau. Bulletin 89) 20 cts.

A teacher's syllabus of twenty lessons.

**Baker, Marcus.** A geographic dictionary of Alaska. 2d ed. 1906. 690 p. (Interior dept. Geological survey. Bulletin 299) 50 cts.

Shows in one alphabetical list all Alaskan place names, obsolete as well as current; their origin, history, modes of spelling, application, and meaning.

**Bliss, George S.** Forecasting the weather. 1913. 34 p. (Agriculture dept. Weather bureau. Bulletin 42) 5 cts.

Fifteen articles telling the work of the Weather bureau and explaining the fundamental laws of meteorology in a very simple elementary way.

**Clarke, F. W.** The data of geochemistry. 2d ed. 1911. 732 p. (Interior dept. Geological survey. Bulletin 491) 60 cts.

The 80 chemical elements and their functions in earth, air, and water, as the materials in which they form part undergo geological changes. For advanced work only.

**Classification of clouds.** 1905. 21.8 x 20.2 in. (Agriculture dept. Weather bureau) 25 cts.

Colored illustrations of all types of cloud formations, with names.

**Correct orthography of geographic names;** revised to January, 1911. 168 p. (Government printing office. Report, 1910, pt. 3) 15 cts., buckram, 35 cts.

**Diller, J. S.** Geological history of Crater lake. 1912. 31 p. illus. (Interior dept.) 10 cts.

A popular account illustrated with some 20 half-tones and half a dozen maps and diagrams.

**Dutton, Clarence E.** Tertiary history of the Grand Cañon district. 1882. 264 p. illus. 4°. (Interior dept. Geological survey) Cloth, \$2. With atlas of 24 sheets, folio, \$10.

A well-written account of the Colorado cañon as it now is. The descriptive passages are occasionally fine, and the pictures, some of which are colored, are easily the best of this district ever issued.

**Hirod, Morton J.** Some lakes of Glacier national park. 1912. 29 p. illus. map. (Interior dept.) 10 cts.

**Folkmar, Daniel.** Dictionary of races or peoples. 1911. 150 p. maps. (Immigration commission. Report, vol. 5. 61st Cong., 3d sess. Senate doc. 662) Buckram, 30 cts.

**Gannett, Henry.** Areas of the United States, the states and the territories. 1906.

9 p. map. (Interior dept. Geological survey. Bulletin 308) 10 cts.

The most authoritative work on the subject ever issued.

— A dictionary of altitudes in the United States. 4th ed. 1906. 1072 p. (Interior dept. Geological survey. Bulletin 274) 60 cts.

A valuable reference work.

— Dictionary of geographic positions in the United States. 1895. 183 p. illus. (Interior dept. Geological survey. Bulletin 123) 60 cts.

The latitude and longitude of between 9,000 and 10,000 places are given; a valuable source-book.

— A gazetteer of Colorado. 1906. 185 p. (Interior dept. Geological survey. Bulletin 291) 15 cts.

Also an introduction which takes up the state's topography, climate, history, agriculture, manufactures, mining and transportation.

— Gazetteer of Cuba. 1902. 95 p. maps. (Interior dept. Geological survey. Bulletin 192) 30 cts.

In addition to the gazetteer with its valuable introduction, there are also a series of maps showing density of population, sex distribution, proportion and distribution of colored, foreign born and illiterates; land planted to sugar, tobacco, etc.

— A gazetteer of Delaware. 1904. 15 p. (Interior dept. Geological survey. Bulletin 230) 5 cts.

A brief introduction; discusses the commercial geography.

— A gazetteer of Indian territory. 1905. 70 p. (Interior dept. Geological survey. Bulletin 248) 5 cts.

Also a brief introduction.

— Gazetteer of Kansas. 1898. 246 p. illus. maps. (Interior dept. Geological survey. Bulletin 154) 20 cts.

Historical maps showing changes in area and density of population at 10-year intervals. An excellent brief general historical, economic and geographic account of the state, in addition to the gazetteer proper.

— A gazetteer of Maryland. 1904. 84 p. (Interior dept. Geological survey. Bulletin 231) 5 cts.

Also a brief introduction.

— Gazetteer of Porto Rico. 1901. 51 p. (Interior dept. Geological survey. Bulletin 183) 10 cts.

Also a brief account suitable for work in commercial geography.

— A gazetteer of Texas. 2d ed. 1904. 177 p. maps. (Interior dept. Geological survey. Bulletin 224) 25 cts.

Introduction discusses the state's area; topography and drainage; climate; forests; exploration and settlement; population; industries; railroads, etc. Many good maps.

— Gazetteer of Utah. 1900. 43 p. folio. map. (Interior dept. Geological survey. Bulletin 166) 15 cts.

Also a brief general description of the state, its population and activities.

— A gazetteer of Virginia. 1904. 159 p. (Interior dept. Geological survey. Bulletin 232) 10 cts.

Also a brief introduction.

— A gazetteer of West Virginia. 1904. 144 p. (Interior dept. Geological survey. Bulletin 233) 10 cts.

Also a brief introduction.

**Garriott, E. B.** Notes on frost. Revised, 1911. 32 p. (Agriculture dept. Farmers' bulletin 104) 5 cts.

How frost is formed; seasons of frost; protection from frost; general observations. Suitable for high schools.



34 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Gilbert, G. K.** Rate of recession of Niagara falls. 1907. 31 p. illus. (Interior dept. Geological survey. Bulletin 306) 15 cts.

Ultimately the falls will disappear; when, how, and why. Interesting and authoritative. The half-tones of the falls from the earliest date it was pictured (1821) to the present have historical value. A rather readable little bulletin.

— **and others.** The San Francisco earthquake and fire of April 18, 1906, and their effects on structures. 1907. 170 p. illus. maps. (Interior dept. Geological survey. Bulletin 324) 50 cts.

Contains: Preface, by Joseph A. Holmes; The earthquake as a natural phenomenon, by G. K. Gilbert; The effects of the earthquake and fire on various structures and structural materials, by Richard L. Humphrey; Effects on buildings, engineering structures, and structural materials, by John S. Sewell; On structural steel and steel-frame buildings, by Frank Soule.

Contains many picturesque incidents of the disaster, and more than 100 photographs showing exactly what an earthquake does to a civilized community.

**Glenn, L. C.** Denudation and erosion in the Southern Appalachian region and the Monongahela basin. 1911. 137 p. maps, illus. 4°. (Interior dept. Geological survey. Professional paper 72) 35 cts.

Discusses denudation and erosion, and their effects, by concrete examples. Many fine pictures. Text and illustrations clearly bring out the relation between forests and the water supply.

**Hague, Arnold.** Geological history of the Yellowstone national park. 1912. 23 p. illus. (Interior dept.) 10 cts.

Offers "such a general view of the region as will enable the tourist to understand clearly something of its physical geography and geology." Ten half-tones and map.

**Hayes, C. W.** The state geological surveys of the United States. 1911. 177 p. (Interior dept. Geological survey. Bulletin 465) 15 cts.

Tells the history, work, and publications of 35 state surveys.

**Herndon, W. L., and Gibbon, Lardner.** Exploration of valley of the Amazon. 1882. 2 pts. 417+339 p. illus. (Navy dept.) Each pt., cloth, 50 cts.

— Maps to accompany pt. 2. Cloth, 20 cts.

This report is given in narrative form, giving a great deal of information about the native inhabitants as well as physical characteristics of the country. Still standard and interesting.

**Howe, Ernest.** Landslides in the San Juan mountains, Colorado, including a consideration of their causes and their classification. 1909. 58 p. illus. 4°. (Interior dept. Geological survey. Professional paper 67) 25 cts.

Contains 20 splendid half-tones of landslides and their effects; the text describes the leading types.

**International geographic congress.** Eighth. Held in the United States, 1904. Report. 1905. 1064 p. maps. (State dept.) \$1.

The papers are usually printed in the writers' native languages, although with English predominating. For the most part, they are readable and informative.

**Matthes, F. E.** Sketch of Yosemite national park and an account of the origin of the Yosemite and Hetch Hetchy valleys. 1912. 47 p. illus. (Interior dept.) 10 cts.

A popular account; 20 good half-tones; 3 diagrams.

**Moore, Willis L.** Report on influence of forests on climate and on floods. 1910. 38 p. map. (House of representatives. Agriculture committee) 5 cts.

"As a result of careful consideration of Weather bureau data, Mr. Moore comes to the following conclusions:

"Precipitation controls forestation, but forestation has little or no effect upon precipitation.

"During the period of accurate observations, the amount of precipitation has not increased or decreased to any extent worthy of consideration.

"The run-off of rivers is not materially affected by any other factor than the precipitation.

"Floods are not of greater frequency and longer duration than formerly."

**National parks.**

The Interior department has issued circulars of general information on the following parks: Crater Lake, Glacier, Mesa Verde, Mt. Rainier, Sequoia, General Grant, Yellowstone, Yosemite, and Hot Springs of Arkansas. The circulars briefly describe the parks; give transportation and hotel rates; contain lists of books and magazine articles; and give the regulations governing them. The circulars are prepared especially for tourists' use. They are free as long as the supply lasts.

**People of Philippines.** 1901. 76 p. (56th Cong., 2d sess. Senate doc. 218) 10 cts.

CONTENTS.—Origin and different tribes.—Chinese.—Europeans.—Slavery.—Languages.—Estimate of population in 1890.

Very interesting and instructive. The document was prepared in the Division of Insular Affairs of the War department, which administers the islands.

**Salisbury, Rollin D., and Atwood, Wallace W.** The interpretation of topographic maps. 1908. 34 p. 40 illus. maps. (Interior dept. Geological survey. Professional paper 80) \$2.75.

The maps, numbering 170, represent nearly every type of topographic work. This work will enable any one to construct an accurate mental picture of any region mapped as if he had been there. Many fine half-tones are included in the volume.

**The United States geological survey: its origin, development, organization and operations.** 1904. 205 p. illus. (Interior dept. Geological survey. Bulletin 227) 25 cts.

Also tells interestingly how maps are made, etc.

**The weather bureau.** 1912. 39 p. 16\*. (Agriculture dept. Weather bureau) 5 cts.

An account of the bureau's organization and work.

**Weed, Walter Harvey.** Geysers. 1912. 29 p. illus. (Interior dept.) 10 cts.

A popular account, illustrated with some 26 excellent half-tones, maps, and diagrams.

**COMMERCIAL GEOGRAPHY.****FOREST AND FOREST PRODUCTS.**

**Betts, H. S.** Properties and uses of the southern pines. 1909. 30 p. illus. (Agriculture dept. Forest service. Circular 164)

An encyclopedic account of the three principal varieties (longleaf, shortleaf, and loblolly) with their economic importance. Particularly useful in advanced work through the South.

**Boiseu, Anton T., and Newlin, J. A.** The commercial hickories. 1910. 64 p. illus. (Agriculture dept. Forest service. Bulletin 80) 15 cts.

An account of the hickories and their economic importance. For advanced use locally.

**California tanbark oak.** Part I.—Tanbark oak and the tanning industry. By Willis Linn Jepson. Part II.—Utilization of the wood of tanbark oak. By H. S. Betts. Appendix, Distribution of tannin in tanbark oak. 1911. 34 p. illus. (Agriculture dept. Forest service. Bulletin 75) 15 cts.

Encyclopedic. For advanced work locally.

**Chittenden, Alfred K., and Holt, W. K.** The red gum, with a discussion of the mechanical properties of red gum wood. Rev. ed. 1906. 12 p. illus. (Agriculture dept. Forest service. Bulletin 58)

Voluminous account of the variety of red gum. Economic importance. Useful in advanced work through the South.

**Cleveland, Treadwell, Jr.** Status of forestry in the United States. 1909. 39 p. (Agriculture dept. Forest service. Circular 167) 5 cts.

The forest situation, and what is done nationally, by the states, and privately, to better it. For advanced work.

**Olins, McGarvey, and Knapp, J. B.** Properties and uses of Douglas fir. 1911. 75 p. illus. (Agriculture dept. Forest service. Bulletin 88) 15 cts.

Part 1.—Mechanical properties. Part 2.—Commercial uses.

Part 3 (p. 55-75) constitutes the portion available for school use. This comprises a non-technical account of the wood's economic value.

**Cook, O. F.** The culture of the Central American rubber tree. 1903. 86 p. illus. 8° (Agriculture dept. Plant industry bureau. Bulletin 49) 25 cts.

Provides useful teaching material. The well executed half-tones, which are unobtainable elsewhere, are better for class-room use than is the text.

**Dana, S. T.** Paper birch in the Northeast. 1909. 37 p. illus. (Agriculture dept. Forest service. Circular 163)

An interesting, simply written account of the tree, its cultivation and uses. Useful in advanced work, particularly in Maine.

**Foster, H. D., and Ashe, W. W.** Chestnut oak in the Southern Appalachians. 1908. 23 p. (Agriculture dept. Forest service. Circular 135) 5 cts.

Interesting account of a substitute for white oak. Useful locally in advanced work along the Atlantic seaboard.

**Foster, J. H.** Forest conditions in Louisiana. 1912. 39 p. illus. (Agriculture dept. Forest service. Bulletin 114) 10 cts.

Useful locally.

**Frothingham, E. H.** Douglas fir: A study of the Pacific Coast and Rocky Mountain forms. 1909. 38 p. illus. (Agriculture dept. Forest service. Circular 150) 5 cts.

**Greeley, W. B., and Ashe, W. W.** White oak in the Southern Appalachians. 1907. 27 p. (Agriculture dept. Forest service. Circular 105)

Discusses the most widely used and one of the most widely distributed hard woods.

**Hall, William L., and Maxwell, H.** Uses of commercial woods of the United States. I. Cedars, cypresses, and sequoias. 1911. 62 p. (Agriculture dept. Forest service. Bulletin 95) 10 cts.

— Pines. 1911. 96 p. (Agriculture dept. Forest service. Bulletin 99) 15 cts.

**Kellogg, R. S.** The forests of Alaska. 1910. 24 p. illus. map. (Agriculture dept. Forest service. Bulletin 81)

An entertaining and very informative account of Alaska in general, with particular reference to its forests. A large map of the district, in colors, and many excellent half-tones.

— Timber supply of United States. 1909. 24 p. map and diagrams. (Agriculture dept. Forest service. Circular 166) 5 cts.

Answers "many questions concerning the extent of our forest resources, their ownership, the rate at which they are being cut, and the outlook for a future timber supply." Popularly written; suitable for class use.

**Leighton, M. O., and Horton, A. H.** The relation of the southern Appalachian mountains to inland water navigation. 1908. 38 p. (Agriculture dept. Forest service. Circular 143)

Investigators prove that "the proper improvement of many rivers may be practically and thoroughly accomplished only by the use of storage reservoirs and the retention of the forest cover." Useful for advanced classes only.

**Munger, Thornton T.** Avalanches and forest cover in the Northern Cascades. 1911. 12 p. illus. map. (Agriculture dept. Forest service. Circular 173) 5 cts.

An interesting, non-technical description of avalanches in general, with especial reference to the Northern Cascade type; methods of prevention. Useful in advanced work.

#### National forests

For information on publications dealing with any particular national forest, write the Forest service, Department of Agriculture, Washington, D. C.

**Plummer, Fred G.** Chaparral. 1911. 48 p. illus. map. (Agriculture dept. Forest service. Bulletin 85) 15 cts.

A mixture of the technical and the general-informational. More useful in Pacific coast and southwest states than elsewhere.

**Price, Overton W., Kellogg, E. S., and Cox, W. T.** The forests of the United States; their use. 1909. 25 p. (Agriculture dept. Forest service. Circular 171) 5 cts.

Discusses "what forests do, what forests we have, what is produced, used, wasted," etc. Shows where we stand on the subject of conservation, and what must be done to preserve the forests. Popularly written; suitable for class use.

**Sterrett, W. D.** Scrub pine. 1911. 27 p. illus. (Agriculture dept. Forest service. Bulletin 94) 5 cts.

An encyclopedic account of a second-growth tree particularly common in Virginia and Maryland. Useful in local advanced work in Atlantic coast states from southern New York to South Carolina.

**Sudworth, George B.** Forest atlas: geographic distribution of North American trees: Pt. I. Pines. 1913. 4 p. 36 maps. 4°. (Interior dept. Geological survey) \$1.

**Tillotson, C. E.** Tree planting by farmers. 1912. 11 p. illus. (Agriculture dept. Yearbook. Reprint 566) 5 cts.

Farmers are responsible for nearly 90 per cent of the approximately 1,000,000 acres of forest plantations in the United States. Where the trees are planted; kinds planted; methods; and results.

**Weigle, W. G., and Frothingham, E. H.** The aspens: their growth and management. 1911. 35 p. (Agriculture dept. Forest service. Bulletin 93) 5 cts.

An interesting encyclopedic account of the most widely distributed tree in North America. Useful in advanced work throughout the country.

**Wood-using industries and national forests of Arkansas.** Part I.—Uses and supply of wood in Arkansas, by J. H. Harris and H. Maxwell. Part II.—Timber resources of the national forests in Arkansas, by Francis Kiefer. 1912. 40 p. (Agriculture dept. Forest service. Bulletin 106) 10 cts.

Useful locally in secondary schools.

**Zon, Raphael.** Forest resources of the world. 1910. 91 p. (Agriculture dept. Forest service. Bulletin 83) 10 cts.

"But three important countries can increase their forest exports without lessening their forest capital." Detailed analysis of all countries. Useful in advanced work. Emphasizes the interrelationship between the extent and condition of other natural resources and their use. Many good tables.

#### MISCELLANEOUS.

**Ashley, George H., and Fisher, Cassius A.** The valuation of public coal lands. 1910. 75 p. (Interior dept. Geological survey. Bulletin 424) 10 cts.

Mr. Ashley discusses the value of coal land and Mr. Fisher depth and minimum thickness of beds as limiting factors in valuation. An interesting paper especially for use in the coal-mining district.

**Beattie, W. B.** The peanut. 1911. 39 p. illus. (Agriculture dept. Farmers' bulletin 431)

Account of the plant—history, description, methods of cultivation, economic importance.

**Bitting, A. W.** The canning of foods; a description of the methods followed in commercial canning. 1912. 77 p. (Agriculture dept. Chemistry bureau. Bulletin 151) 10 cts.

"The object of this bulletin is to give, in a rather popular form, a description of the conditions in the better type of factories and the methods followed, so as to indicate to manufacturers what is exported in a modern plant; to give to teachers of domestic science more nearly accurate information upon this line of work than is now available, and to inform the consumer what goes into a can and what he may reasonably expect."

**Bitting, A. W.** Preparation of the cod and other salt fish for the market. 1911. 63 p. illus. (Agriculture dept. Chemistry bureau. Bulletin 133) 15 cts.

The first 40 pages are given up to an interesting description, well illustrated, of the New England deep-sea fishing industry. The remainder of the bulletin consists of a technical paper on "a bacteriological study of the causes of reddening."

**Brand, Charles J.** Crop plants for paper-making. 1911. 20 p. illus. (Agriculture dept. Plant industry bureau. Circular 82) 5 cts.

This circular is printed on 5 kinds of paper made wholly or in part from crop wastes and by-products from corn, broom corn, rice, and cotton.

**Cotton plant, The:** its history, botany, chemistry, culture, enemies, and uses. 433 p. illus. (Agriculture dept. Experiment stations' office. Bulletin 33) 60 cts.

Probably the best work of its kind on the plant extant. Good not only in geography, but also in nature study and agriculture. For advanced courses.

**Cotton seed and its products.** 1896. 16 p. (Agriculture dept. Farmers' bulletin 36)

A useful general treatise for any geography course.

**Davis, Charles A.** The uses of peat for fuel and other purposes. 1911. 214 p. map (in pocket) (Interior dept. Mines bureau. Bulletin 16) 30 cts.

A good encyclopedic account.

**Elliott, H. W.** Seal-lands of Alaska. 1881. 176 p. illus. maps. 4°. (Commerce dept. Census bureau) 25 cts.

Tenth census. Well written and comprehensive.

**Ellis, Don Carlos.** A working erosion model for schools. 1912. 11 p. illus. (Agriculture dept. Experiment stations office. Circular 417) 5 cts.

Practical directions for its construction.

**Georgeson, C. C.** Reindeer and caribou. 1904. 13 p. illus. (Agriculture dept. Animal industry bureau. Circular 55) 5 cts.

An interesting general account, with especial reference to North America. The half-tone pictures are very good for school use.

**Gray, Edward D.** Government reclamation work in foreign countries. 1909. 115 p. (Interior dept.) 15 cts.

**Hawaii.** 1897. 184 p. map. (American republics. Bulletin 85) 25 cts.

CONTENTS.—Location, commercial and naval importance. Historical sketch. Area and population. Topography and climate. Agricultural resources. Foreign commerce. Tariff and customs regulations. Transportation facilities, postal system, etc. Patents, currency, etc.

**Hawaiian Islands.** Report from Committee on foreign relations and appendix in relation to Hawaiian Islands. 1894. [171] p. (53d Cong., 2d sess. Senate rp. 227) 10 cts.

APPENDICES.—Instructions to Commodore Perry, Apr. 15, 1847. Early treaties. Report on physical features, climate, diseases, etc., by G. P. Scriven and J. Y. M. Blunt. Hawaiian Islands and people, by C. E. Dutton. Evolution of Hawaiian land tenures, by S. B. Dole. Hawaiian treaty and review of its commercial results. Hawaii and our future sea power, by A. T. Mahan. Translation of constitution of Hawaiian Government of 1840. An unpublished chapter in Hawaiian history, by Mr. Marshall. Extracts from history of Hawaiian Islands, by J. J. Jarvis. Extracts from Honolulu directory, historical sketch of Hawaiian Islands with chronological table of notable events, by C. C. Bennett. Constitution of 1894.

This document, together with committee hearings, influenced the annexation of Hawaii to the United States.

**Irrigation projects of the U. S. Reclamation service:** National reclamation of arid lands. 1910. 33 p. illus., map. narrow 8°. (Interior dept. Reclamation service)\* 5 cts.

Gives the text of the reclamation act and a brief statement regarding each project. Detailed information regarding any project of particular local interest may be obtained by writing to the statistician of the Reclamation service, Washington, D. C. The circular is useful in grammar grades.

\* Sold by Reclamation service only.



**Jordan, David Starr, and Clark, G. A.** Fur seals and fur-seal islands of north Pacific Ocean: Pt. 1, History, condition, and needs of herd of fur seals resorting to Pribilof Islands. 1898. 250 p. illus. large 8°. (Treasury dept. Seal islands of Alaska) Cloth, 75 cts.

Very interesting. Contains also a life-history and account of the habits of the animals. Many splendid half-tones and drawings from life.

**Kendall, William Converse.** American catfishes: habits, culture, and commercial importance. 1910. 39 p. illus. (Commerce dept. Fisheries bureau. Document 733) 10 cts.

Brings together "the most important . . . facts on this subject."

**Knapp, Seaman A.** Cotton, the greatest of cash crops. 1910. 10 p. (Agriculture dept. Office of secretary. Circular 32) 5 cts.

Tells the necessity of fighting the cotton boll weevil.

**Land of the palm and pine.** Official guide and hand book to the Philippines. 1911. 214 p. illus. (War dept. Insular affairs bureau) \$1.

For sale only by the Insular affairs bureau, Washington, D. C. Interesting, authoritative, and richly illustrated.

#### Latin America.

The Pan-American union issues an authoritative, interesting, and very well-illustrated monthly bulletin exclusively devoted to Latin America. Subscription-price, \$2 a year. It has also issued handbooks of nearly all these countries. None of the Union's publications are handled by the Superintendent of documents. For information, write the Director of the Pan-American union, Washington, D. C.

**Memorandum history of the Department of the interior.** 20 p. 1912. (Interior dept.)

See also General information regarding the Department of the interior. 1912. 8 p.

**Munroe, Charles E., and Hall, Clarence.** A primer on explosives for coal miners. 1909. 61 p. illus. (Interior dept. Geological survey. Bulletin 423) 15 cts.

An interesting, simply-written book on explosives, their history, composition and uses.

**Official handbook of the Panama canal.** 2d ed., rev. and enl. Ancon, Canal Zone, 1911. 30 p. diagrams and maps.

A running account of the canal, with full statistics. Valuable in either elementary or advanced work.

To be obtained free from the Panama canal commission, Washington, D. C.

**Papers on the conservation of mineral resources,** reprinted from report of the National conservation commission, February 1909: 1909. 214 p. illus. maps. (Interior dept. Geological survey. Bulletin 394)

Contains: Coal fields of the United States, by M. R. Campbell and E. W. Parker; Estimates of future coal production, by Henry Gannett; The petroleum resources of the United States, by D. T. Day; Natural-gas resources of the United States, by D. T. Day; Peat resources of the United States, exclusive of Alaska, by C. A. Davis; Iron ores of the United States, by C. W. Hayes; Resources of the United States in gold, silver, copper, lead, and zinc, by Waldemar Lindgren; The phosphate deposits of the United States, by F. B. Van Horn; Mineral resources of Alaska, by A. H. Brooks.

The writers tell of waste, past and present, and how to check it. The papers are exhaustive, authoritative, and readable.

**Parsons, Charles L.** Notes on mineral wastes. 1912. 44 p. (Interior dept. Mines bureau. Bulletin 47) 5 cts.

A very interesting publication suitable for advance work in commercial geography.

**Skinner, Robert P.** Manufacture of semolina and macaroni. 1902. 31 p. illus. 4°. (Agriculture dept. Plant industry bureau. Bulletin 20) 15 cts.

An interesting semi-popular account.

**[South America] Annual review number.**

This annual review number of the Pan-American union bulletin gives under names of the different countries, arranged alphabetically, a careful résumé, prepared from the latest information and data available, the commercial and economic conditions and progress of each one of the nations forming the Pan-American union.

Spencer, J. W. Elevations in Dominion of Canada. 1884. 43 p. (Interior dept. Geological survey. Bulletin 6) 5 cts.

Spillman, W. J. Soil conservation. 1910. 15 p. (Agriculture dept. Farmers' bulletin 406)

"How to restore and maintain the productivity of the soil is the most important phase of the conservation problem."

An interesting and thorough analysis of the land problem in this country as relates to agriculture, and comparisons with conditions in older countries.

For secondary schools, city or country

Stevenson, Charles H. Whalebone: its production and utilization. 1907. 12 p. illus. (Commerce dept. Fisheries bureau. Document 626) 5 cts.

The sugar industry: Sugar cane and cane sugar in Louisiana, beet sugar data, and general tables. 1913. 128 p. (Commerce dept. Foreign and domestic commerce bureau. Misc. series, no. 9) 15 cts.

Deals especially with the monetary side of the industry.

Suggestions to homesteaders and persons desiring to make homestead entries. 1913. 36 p. (Interior dept. General land office. Circular 224)

Gives also all federal laws bearing on the subject.

Swingle, Walter T. The date palm and its utilization in the southwestern states. 1904. 155 p. illus. 4°. (Agriculture dept. Plant industry bureau. Bulletin 53) 20 cts.

Treats the crop from every possible standpoint; probably the best work on the date palm ever written. Very interesting, and illustrated with about 35 splendid half-tones.

System of uniform and common international regulations for protection and preservation of food fishes in international boundary waters of United States and Canada. Ordered printed 1910. 19 p. (61st Cong., 2d sess. House document 638) 5 cts.

Transportation routes and systems of the world, development of steam-carrying power on land and sea 1800-1908, and table of distances from New York, New Orleans, San Francisco, and Port Townsend to principal ports of the world and principal cities of United States. 1909. 26 p. 4°. (Commerce dept. Foreign and domestic commerce bureau) 10 cts.

Vacant public lands in the United States. 1913. 24 p. (Interior dept. General land office. Circular 259)

Tables "show, by states, territories, land districts and counties, the area of unappropriated and unreserved public lands, surveyed and unsurveyed and a brief description of the character of the vacant lands."

Winslow, Irving. Conditions and future of Philippines. 1909. 8 p. (61st Cong., 1st sess. Senate document 81) 5 cts.

From North American review. Criticizes colonial administration.

Work of survey. 2d ed. 1909. 47 p. illus. map. (Commerce dept. Coast and geodetic survey) 10 cts.

The work of the Bureau of soils. Rev. 1905. 15 p. (Agriculture dept. Bureau of soils. Circular 13) 5 cts.

This series of circulars includes 40 reports on the soils of the Eastern United States. Gives distribution; characteristics; surface features and drainage; limitations in use; improvements in soil efficiency; limitations on special crops; crop adaptation; farm equipment necessary to work it, etc. The series also contains a number of circulars dealing with special phases of soil questions, such as fertilizers, etc. In addition, the bureau has made hundreds of costly soil surveys and soil surveys of local areas, which it issues accompanied by maps. These surveys are written in understandable language. Write the bureau for its publications dealing with the soils of your locality. These works are useful alike in teaching geography, geology, nature study, or agriculture.

#### MAPS.

Alabama. Scale 12 m. = 1 in. 1885. 32.3 x 21 in. (Interior dept. General land office) 25 cts.

Alaska. Scale 30 m. = 1 in. 1900. 31 x 41.9 in. (Interior dept. General land office) 25 cts.

Alaska. [Index map showing areas covered by topographic maps, with inset, Aleutian Islands] Scale 1:5,000,000. 1909. 16.8×23.8 and 2.5×9 in. (Interior dept. Geological survey) 10 cts.

NOTE.—On the back is a bibliography of Geological survey publications on Alaska.

Arizona [with plans of cities and railroads] Scale 12 m.=1 in. 1912. 37.5×30.7 in. (Interior dept. General land office) 25 cts.

INSETS: Phoenix. 7×2.1 in. Railroads in Arizona, Connections to. Scale 50 m.=0.3 in. 4×3.3 in. Tucson. 3×2 in.

Arkansas. Scale 12 m.=1 in. 1901. 22.8×28 in. (Interior dept. General land office) 25 cts.

Coal fields of United States [map with text] Scale 300 m.=2.7 in. 1908. 25.9×36.6 in. (Interior dept. Geological survey) [Size of map is 17.6×28.3 in.] 10 cts.

Colorado. Scale 12 m.=1 in. 1910. 28.7×33.8 in. (Interior dept. General land office) 25 cts.

Cuba. Geographical and topographical map of Cuba. 2 sheets. Scale 2 m.=1 in. 1873. Each sheet 24.1×33.6 in. (War dept. Engineer office. Maps nos. 10, 11) Each, 13 cts.

Egypt. Map of lower Egypt and of adjacent country, with part of Palestine. Scale 15½ m.=1 in. 1882. 24×28.9 in. (War dept. Engineer office. Map no. 14) 20 cts.

Explorations. United States, showing routes of principal explorers, and early roads and highways [map, with insets] Scale 120 m.=1.35 in. 1908. 23.4×32 in. (Interior dept. General land office) 25 cts.

Alaska, with inset, Aleutian Islands. Hawaiian Islands, with inset, Guam or Cuanan Islands. Panama Canal, with inset, Isthmus of Panama, showing location of canal. Philippine Islands. Porto Rico. Tutuila Group of Samoan Islands; Manus Islands; Rose Islands; Tutuila Island.

NOTE.—A partial list of the routes included follows: Ponce de Leon, 1512. Coronado, 1540. Drake, 1579. Smith, 1607. Hudson, 1608. Champlain, 1609. Mayflower, 1620. Joliet, 1673. La Salle, 1680. Boone, 1765. Wilderness Road, 1769. Cook, 1778. Lewis and Clark, 1804. Pike, 1806. Bonneville, 1831. Fremont, 1843. Santa Fe Trail. National Highway. Spanish Trail.

Florida. Scale 12 m.=1 in. 1911. 40.4×31.8 in. (Interior dept. General land office) 25 cts.

See also Post routes.

Hawaii. Map of territory. Scale 12 m.=1 in.; with inset, Hawaiian Archipelago, scale 152 m.=1 in. 1901. 22×33.5 and 7.7×12.7 in. (Interior dept. General land office) 25 cts.

Illinois. Scale 12 m.=1 in. 1911. 32.8×19.3 in. (Interior dept. General land office) 25 cts.

Indiana. Scale 12 m.=1 in. 1886. 23.9×16.5 in. (Interior dept. General land office) 25 cts.

Iowa. Scale 12 m.=1 in. 1885. 32.3×20 in. (Interior dept. General land office) 25 cts.

Kansas. Scale 12 m.=1 in. 1898. 24.1×36.1 in. (Interior dept. General land office) 25 cts.

Louisiana. Scale 12 m.=1 in. 1896. 30×23.5 in. (Interior dept. General land office) 25 cts.

Michigan. Scale 16 m.=1 in. 1904. 30.3×25.5 in. (Interior dept. General land office) 25 cts.

Minnesota. Scale 12 m.=1 in.; with inset Minneapolis and vicinity and St. Paul and vicinity. 1905. 37.1×31.6 and 8.3×10.8 in. (Interior dept. General land office) 25 cts.

Mississippi. Scale 12 m.=1 in. 1890. 20.8×32.7 in. (Interior dept. General land office) 25 cts.

Missouri. Scale 12 m.=1 in. 1911. 28.5×32.8 in. (Interior dept. General land office) 25 cts.

Montana. Scale 12 m.=1 in. 1911. 33.5×49.3 in. (Interior dept. General land office) 25 cts.

*Inserts:* Butte, 5.1×4.6 in. Great Falls, 4.1×4.4 in. Helena, 6.7×9.8 in. Missoula, 5.4×4.1 in.

Natural forest regions of North America and their characteristic tree growth. Scale 5° long.=1.6 in. 1910. 18.1×13.7 in. (Agriculture dept. Forest service) 15 cts.

Natural forest regions of South America and their characteristic tree growth. Scale 10° long.=1.2 in. 1911. 18×14.2 in. (Agriculture dept. Forest service) 15 cts.

Nebraska. Scale 12 m.=1 in. 1909. 26.7×39.3 and 6.8×6.1 in. (Interior dept. General land office) 25 cts.

Nevada. Scale 12 m.=1 in. 1908. 42.9×30.4 in. (Interior dept. General land office) 25 cts.

New Mexico. Scale 12 m.=1 in. 1908. 37.3×31.2 in. (Interior dept. General land office) 25 cts.

North Dakota. Scale 12 m.=1 in. 1910. 25.9×33.2 in. (Interior dept. General land office) 25 cts.

Ohio. Scale 12 m.=1 in. 1910. 21.5×23.9 in. (Interior dept. General land office) 25 cts.

Oklahoma [with plans of cities] Scale 12 m.=1 in. 1907. 21.5×42.7 in. (Interior dept. General land office) 25 cts.

*Inserts:* Guthrie, 6.1×6.1 in. Lawton, 3.1×5.8 in. McAlester, 7×4.8 in. Muskogee, 5.1×5.6 in.

Oregon. Scale 12 m.=1 in. 1910. 28.5×36.5 and 4.8×3.4 in. (Interior dept. General land office) 25 cts.

*Note.*—Reclamation projects are noted on this map which did not appear on previous edition.

Philippine Islands. Atlas. 1900. 24 p. 30 maps. large 4° (Commerce dept. Coast and geodetic survey. Special publication 3) Cloth, \$3.15.

South Dakota. Scale 12 m.=1 in. 1910. 26×37.5 in. (Interior dept. General land office) 25 cts.

Utah. Scale 12 m.=1 in. 1908. 33.6×26.1 in. (Interior dept. General land office) 25 cts.

Washington. Scale 12 m.=1 in. 1909. 23×34.6 in. (Interior dept. General land office) 25 cts. [I 21.13: W 27]

*Inserts:* Seattle. Tacoma.

Wisconsin. Scale 12 m.=1 in. 1912. 29.5×26.1 in. (Interior dept. General land office) 25 cts.

Wyoming [with plans of cities] Scale 12 m.=1 in. 1912. 28.8×38.8 in. (Interior dept. General land office) 25 cts.

*Inserts:* Cheyenne and vicinity, 3.1×3.5 in. Evanston, 3.1×3 in. Laramie, 3.1×3 in. Sheridan and vicinity, 3.1×3.9 in.

#### UNITED STATES.

##### General.

United States, showing extent of public surveys, Indian, military, and forest reservations, railroads, canals, national parks, and other details [with insets]; corrected to June 30, 1911. Scale 37 m.=1 in. 59.4×82.3 in. (Interior dept. General land office) Paper, \$1.00. I 21.13: Un 3<sup>12</sup>

*Inserts:* Alaska, with inset, Alaskan Islands. Canal Zone; with insets, Isthmus of Panama, showing location of canal. Hawaiian Islands, with inset, Guam or Coojan Island. Philippine Islands. Porto Rico. Tutuila Group of Samoan Islands; Midway Islands; Rose Island; Tutuila Island.

*Note.*—This map is about 5 by 7 feet, mounted on muslin and attached to rollers.

At times the Secretary has a limited number of wall maps of the United States for distribution to schools and public libraries (one to each institution), but not to individuals. Teachers requesting this map should always give name of school. This map measures 84 by 61 inches and is on the scale of 37 miles to the inch. It has smaller scale insets showing Alaska, the Canal Zone, and insular possessions. It shows the territorial growth of the United States, the principal towns and railroads, Indian and other reservations, national parks, national forests, and reclamation projects. It does not show county boundaries. This map may be purchased from the Superintendent of documents, Government printing office, for \$1.

#### Topographic atlas.

When, in 1882, the Geological survey was directed by law to make a geologic map of the United States, there was not in existence a suitable topographic map to serve as a base. The preparation of such a map was immediately begun. About one-third of the area of the country, excluding Alaska, has now been mapped. The map is published in atlas sheets, each sheet representing a small quadrangular district. About 1,800 sheets have been engraved and printed. They are sold only by the United States geological survey, at 10 cents each or at 5 cents in lots of 50 or more. Descriptive circulars may be had on application.

See also Salisbury, R. D., and Atwood, W. W. Interpretation of topographic maps; 1908. 84 p. illus. 151 maps. 4°. (Interior dept. Geological survey. Professional paper 60) \$2.75.

#### Geologic.

#### Geologic atlas of the United States.

Under the plan adopted for the preparation of a geologic map of the United States the entire area is divided into small *quadrangles*, bounded by certain meridians and parallels, and these quadrangles, which number several thousand, are separately surveyed and mapped. The unit of survey is also the unit of publication, and the maps and description of each quadrangle are issued in the form of a folio. When all the folios are completed they will constitute a geologic atlas of the United States.

A folio is designated by the name of a principal town or of a prominent natural feature within the quadrangle. It comprises topographic, geologic, economic, and structural maps of the quadrangle, and occasionally other illustrations, together with a general description. Each folio is about 20.5×17.5 inches in size. They are sold direct by the Geological survey, to whom orders for the local atlas should be addressed.

#### Parcel post, etc.

#### Parcel post map.

This map, or rather series of maps of the United States, explanatory of the parcel-post service is distributed to all the post offices of the country. It shows the whole country divided into 3,500 small oblong sections. All post offices located within one of these sections will require the same rate of postage on parcels. As there are 3,500 sections, there are 3,500 variations of the map. While the base map is the same in all cases, each one of the 3,500 sections becomes in its turn the center of a series of 8 numbered zones indicated by bright red lines printed across the black-and-white face of the base map.

This map is sold by the Post office department, together with the explanatory guide, for 75 cents.

**Post route maps.** These maps, which show the post routes and the location of the principal post-offices, do not show much detail in addition. The larger states are on two or four sheets, while two or three of the smaller states are grouped on a single sheet. They are sold only by the *Disbursing clerk, Post-office department*, at the uniform price of 80 cents a sheet.

The following is a list of maps available:

Alabama.	Kentucky, Tennessee, 2 sheets:
Alaska.	Louisiana.
Arizona.	Maine.
Arkansas.	Massachusetts, Rhode Island, Connecticut.
California, Nevada, 4 sheets.	Michigan, Wisconsin, 2 sheets.
Canal Zone, Isthmus of Panama.	Minnesota.
Colorado.	Mississippi.
Delaware, Maryland, District of Columbia.	Missouri.
Florida.	Montana, Idaho, Wyoming, 2 sheets.
Georgia.	New Hampshire, Vermont.
Hawaii, Samoan Islands, Guam.	New Jersey.
Illinois.	New Mexico.
Indiana.	New York, 4 sheets.
Iowa.	North Carolina, South Carolina, 2 sheets.
Kansas, Nebraska, 2 sheets.	North Dakota.



Ohio.	South Dakota.
Oklahoma.	Texas, 2 sheets.
Oregon.	Utah.
Pennsylvania, 2 sheets.	Virginia, West Virginia, 2 sheets.
Philippine Islands, 2 sheets.	Washington.
Porto Rico.	

**Rural route maps.**

Maps of those counties in which the rural delivery postal system is completely established are being issued by the Post office department. The maps are published in two forms, one giving simply the rural free delivery routes starting from a single given post office, sold at 10 cents; the other, the rural free delivery routes in an entire county, sold at 50 cents. In both forms, not only the rural route is given, but also roads, rivers, creeks, schools, churches, and even residences of people living along the lines of the routes; in fact, everything in the nature of a land-mark. They are on the uniform scale of an inch to a mile. Sun-print copies are produced in response to special calls, addressed to the Disbursing clerk, Post-office department. These maps should not be confused with the post route maps.

*Weather maps.*

National weekly weather bulletin. 24×19 in. [Weekly Apr.-Sept., monthly remainder of year] (Agriculture dept. Weather bureau) Per year, 25 cts.  
 Snow and ice bulletin, 12×19 in. [Weekly during winter] (Agriculture dept. Weather bureau) Per season, 25 cts.  
 Weather map, 19×24 in. [daily] Washington ed. (Agriculture dept. Weather bureau) Per month, 25 cts.; per year, \$2.50.  
 Weather map, edition issued at stations throughout the country. (Agriculture dept. Weather bureau) Per month, 20 cts.; per year, \$2.

**WORLD.****International map of the world, United States section.**

The first sheet of this map designated as sheet north K 19, or the Boston sheet, including Rhode Island and portions of New York, Connecticut, Massachusetts, New Hampshire, Maine, and Nova Scotia has just been published. This world map, undertaken by agreement among the leading nations, is being prepared on a scale of 1 to 1,000,000; that is, 1 linear inch on the map represents 1,000,000 inches on the earth's surface, or nearly 16 miles. The map is to consist of about 1,600 sheets, covering all the land areas of the world, each sheet representing 4 degrees of latitude and 6 degrees of longitude. At the present rate of progress the United States portion will be finished within eight or ten years and when completed it will be about 16 feet in width.

The Geological survey states that there is no very accurate map of the United States as a whole. Many of the commercial maps now published are full of gross errors. This map is to be sold by the Geological survey at 40 cents a sheet.

As a preliminary to the issuance of the completed color sections of the map, the Survey is printing, in black and white, state maps on the scale of 1 to 500,000, being thus four times as large as the world map of the same area. Already such maps have been finished and printed for Vermont, Illinois, Indiana, Iowa, Minnesota, Mississippi, and Georgia, and a dozen others are in process of publication. These are sold by the Survey at various prices according to the size of the map.

**Penck, Albrecht.** Plans of map of the world; recent progress in execution of map of the world on uniform scale of 1:1,000,000 (16 miles to the inch) In 8th International geographic congress. Report, 1904. p. 553-557. (State dept.) Cloth, \$1.00.

*Transportation routes.*

Principal transportation routes of the world. Scale 20° lat.= 2.4 in., 1909. 22.6×53.6 in. (Commerce dept. Foreign and domestic commerce bureau) 25 cts.

Transportation routes and systems of the world; development of steam-carrying power on land and sea 1800-1908, and table of distance from New York, New Orleans, San Francisco, and Port Townsend to principal ports of the world and principal cities of the United States. 1909. 26 p. 4°. (Commerce dept. Foreign and domestic commerce bureau) 10 cts.

## HISTORY.

**Adams, E. C.** Brief history of Delaware Indians. 1906. 70 p. (59th Cong., 1st sess. Senate document 501) 5 cts.

**American historical association.** Annual reports, 1895—

Contain the more important papers read at the annual sessions. These constitute standard contributions to history—chiefly American—and are regarded as among the most valuable scholarly publications of the Government. Handsomely printed and well bound in blue cloth, each volume running from 500 to 700 pages. They sell from 70 cts. to \$1 each.

**Bond, Frank.** Historical sketch of "Louisiana" and the Louisiana purchase. 1912. 14 p. maps. (Interior dept. General land office) 10 cts.

Contains also a statement of other acquisitions. The book consists of seven maps, in color, with accompanying explanations.

**Brown, Glenn.** History of United States capitol. 1900, 1902. 2 vols. 255 p. illus. plans, facsimiles. large quarto. (District of Columbia committee) Cloth,

This book, the most costly ever published by the Government, tells the story of the conception and construction of the capitol, from 1793 to 1900, with care and substantial accuracy. The pages of illustrative matter exceed those devoted to the text. Views are given of the building in every stage of its growth, including all proposed plans. Rare portraits, and the paintings and sculptures with which it is profusely embellished, are also reproduced. These volumes can not be sold separately.

**Campaign for Chattanooga,** historical sketch descriptive of model in relief of region about Chattanooga and of battles illustrated thereon. 1902. 47 p. map. (Chickamauga and Chattanooga national military park commission) 10 cts.

A detailed account of movements.

**Century of population growth from 1st census to 12th, 1790 to 1900.** 303 p. illus. maps. 4°. (Commerce dept. Census bureau) Cloth, \$1.10.

Among the early maps is a map of North America, showing all new discoveries, 1797, city maps of New York, Philadelphia, and Boston, maps of northern and southern parts of United States, maps showing changes of county lines, 1790 to 1900, etc.

Contents include in part a survey of the United States in 1790; population in the colonial and continental periods; white and negro population; analysis of the family; surnames of the white population in 1790; interstate migration; occupations and wealth.

**Chinese immigration.** Treaty, laws, and regulations governing admission of Chinese; regulations approved Apr. 18, 1910. Edition of June 22, 1911. 63 p. (Commerce dept. Immigration and naturalization bureau) 5 cts.

**Clark, Walter.** Some defects in the Constitution of the United States; an address to law department of University of Pennsylvania, Apr. 27, 1906. 1911. 17 p. (62d Cong., 1st sess. Senate document 87) 5 cts.

Mr. Clark (chief justice of North Carolina) advocated election of senators and judges.

**Colonial administration, 1800-1900** [methods adopted by principal colonizing nations, with statements of area, population, revenue, etc., of colonies] In Commerce dept. Monthly summary of commerce and finance, Mar. 1903. p. 2557-3005. Colored map, plate of maps. 55 cts.

**Congressional directory.** (Issued for each session of each congress) (Printing committee) Cloth, 60 cts.

This directory contains biographies of all senators and representatives now members of congress, their public records, committee assignments, and home and Washington post-office addresses; also like details concerning the president and his cabinet officials; also lists of the departments, bureaus, divisions, etc., composing the government establishment at Washington, with statements as to the functions and authority of each; also names and official titles of all important government officers; also lists of diplomatic and consular representatives of foreign countries in the United States and of similar United States officials sent abroad, with much other official information.

The book is illustrated by a view of the capitol building, plans of the senate chamber and representatives hall, showing the location of the seats of members, a map of Washington, and maps of all the states, showing the boundaries of the congressional districts.

The text is fully corrected about 400 pages.

46 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Constitution of the United States.** 1907. 37 p. 24°. (Justice dept.) 5 cts.

An exact text of the Constitution without notes.

**Descriptive catalogue of the road models of the Office of public roads.** 1913. 29 p. illus. (Agriculture dept. Public roads office. Bulletin 47) -

Twenty-one illustrations show standard types and modern ideas. Accompanying descriptions are given in such order as to present the historical development of road-building.

**Davidson, George.** Examination of some early voyages of discovery and exploration on northwest coast of America, from 1539 to 1603. In Commerce dept. Coast and geodetic survey. Report, 1886. p. 155-253. map. 4°. Cloth, \$1.00.

The author, who was very familiar with the Pacific coast on account of his work on the Pacific coast pilot, compiled the accounts of the voyages of Ulloa, Cabrillo, Ferrello, Sir Francis Drake, and Vizcaino, giving the descriptions of the same places by the different explorers in parallel columns.

**Fewkes, Jesse W.** Antiquities of the Mesa Verde national park: cliff palace. 1911. 82 p. illus. (Smithsonian institution. American ethnology bureau. Bulletin 51) Cloth, 45 cts.

For a better general account of the cliff dwellers, see below. The pictures in this book are fine.

— Antiquities of Mesa Verde national park: spruce-tree house. 1909. 57 p. illus. (Smithsonian institution. American ethnology bureau. Bulletin 41) Cloth, 40 cts.

An interesting account of the habits and customs of the cliff-dwellers. Contains also 21 pages of fine half-tones.

**Fletcher, A. C.** Indian education and civilization. 1888. 693 p. (48th Cong., 2d sess. Senate ex. doc. 95. vol. 2, pt. 2; serial no. 2264) Sheep, \$1.15.

CONTENTS.—History from 19th century. Reservations. Tribes of New York. Missionary work during 19th century.

Contains some suitable historical matter.

**Gannett, Henry.** Boundaries of the United States and of the several states and territories, with an outline of the history of all important changes of territory. 3d. ed. 1904. 145 p. 54 maps. (Interior dept. Geological survey. Bulletin 226) 25 cts.

Also quotes extensively from the enabling acts and other source documents. Useful in detailed advance work.

— The origin of certain place names in the United States. 2d. ed. 1905. 334 p. (Interior dept. Geological survey. Bulletin 258) 20 cts.

Lists thousands of place names, giving their history in one sentence each. Good for reference.

**Heads of families at first census, 1790.**

A complete set of schedules for each state was filed in the State department, but some of these were burned by the British in 1814. The names for each state are printed in a separate book, each one having an alphabetical index. These books are sold by the Census bureau at \$1.50 per volume, and all applications should be made directly to the bureau. The following states have been issued: Connecticut, Maine, Maryland, Massachusetts, New Hampshire, New York, North Carolina, Pennsylvania, Rhode Island, South Carolina, Vermont, Virginia.

**Hermann, Binger.** The Louisiana purchase and our title west of the Rocky mountains, with a review of annexation by the United States. 1900. 12°. 87 p. illus. maps. (Interior dept. General land office) Cloth, 65 cts.

A more exhaustive work than Mr. Bond's (q. v.) All territorial exhibitions are well handled; extensive quotations from debates in congress are given. The book is illustrated by pictures of leading statesmen and by good maps.

**Hodge, Frederick Webb, ed.** Handbook of American Indians north of Mexico. 1911. Pt. 1. 972 p. illus. map. Pt. 2. 1221 p. illus. (Smithsonian institution. American ethnology bureau. Bulletin 30) Each part, cloth, \$1.50.

Contains a summation of all present knowledge about the Indians. Well-written, interesting, and valuable. Contains also synonymy and bibliography.

Hunt, Gaillard. History of the seal of the United States. 1909. 72 p. 8 plates. 8° (State dept.) 30 cts.

An account of a little known subject, based on source-documents. Rejected designs are given.

Huntington, Ellsworth. The secret of the big trees. 1913. 24 p. illus. (Interior dept.) 5 cts.

How changes of climate affect history.

Information concerning some of the principal navies of the world: a series of tables to answer popular inquiry. 1913. 29 p. (Navy dept. Naval intelligence office) 5 cts.

Information relative to voyage of Atlantic fleet around the world, Dec. 16, 1907, to Feb. 22, 1909. 25 p. 1 table. (Navy dept.) 5 cts.

Contains only statistics, movements of vessels, dates, etc. No description, stories or incidents.

History of Marine corps. Ordered printed 1909. 6 p. (60th Cong., 2d sess. Senate document 719) 5 cts.

Kelley, J. Warren. History of Statuary hall, giving list of statues therein, with short history of persons represented. Speech delivered in House, Apr. 30, 1910. In Congressional record, vol. 45, no. 114, p. 5785-5789. 10 cts.

Kohl, J. G. History of discovery and exploration on coasts of United States. In Commerce dept. Coast and geodetic survey. Report, 1884. p. 495-617. 4°. Cloth, \$1.20.

The work of Dr. Kohl, an eminent geographer, upon the history of discovery and explorations on the coast of America was deposited in the archives of the Survey upon its completion, means for its publication as a whole never having been available. The historical portion was printed as an appendix to the Survey report for 1884 as listed above. It includes a concise account of every exploration of our coasts from the time of the earliest Northmen to explorations made by the Engineer corps of the army in 1850, and gives a list of the maps to be found in the work in the archives of the Survey pertaining to the various explorations.

Letter of Diego Alvarez Chanca, dated 1494, relating to 2d voyage of Columbus to America, being first written document on natural history, ethnography, and ethnology of America [translated from Spanish original, as spoken and written in 15th century, with explanatory notes, geographical and historical remarks] by A. M. F. de Ybarra. In Smithsonian Institution. Miscellaneous collections 1907. vol. 48, quarterly issue, vol. 3, pt. 4, p. 428-457. illus. 90 cts.

A valuable source document.

Lieber, G. N. Justification of martial law. 1898. 25 p. (War dept. Judge-advocate-general's dept.) 5 cts.

Reprinted from North American review.

Lodge, Henry Cabot. The general arbitration treaties with Great Britain and France. 1912. 34 p. (62d Cong., 2d sess. Senate document 853) 5 cts.

Points out defects in the treaties. Sketches history of war since fall of Roman Empire, and rise of peace movement. An appendix gives a list of the arbitration treaties in force between the United States and other countries.

McGee, W. J. Siouan Indians, preliminary sketch. p. 153-204. large 8°. (Smithsonian institution. American ethnology bureau. 15th report, 1894. Separate) 15 cts.

Messages of the Presidents.

Many of these in pamphlet form are kept in stock by the Superintendent of documents, Washington, D. C., and information concerning them will be furnished upon application to him.

**Mexican and Central American antiquities, calendar systems, and history, translated from German under supervision of C. P. Bowditch.** 1904. 682 p. illus. map. (Smithsonian institution. American ethnology bureau. Bulletin 28) Cloth, \$1.00.

CONTENTS.—Mexican chronology.—Ancient Mexican feather ornaments.—Antiquities of Guatemala.—Mexican picture writing, of Alexander von Humboldt.—Bat god of Maya race.—Wall painting, of Mitla.—Significance of Maya calendar in historic chronology.—Temple pyramid of Teopixtlan.—Venus period in picture writings of Borgian codex group.—Aids to deciphering of Maya manuscript.—Maya chronology.—Time periods of Mayas.—Maya glyphs.—Central American calendar.—Pleiades among the Maya.—Central American tonalamatl.—Recent Maya investigations.—Inscription on crosses of Palenque.—Day gods of Mayas.—Temple of inscriptions at Palenque.—Three inscriptions of Palenque.—Comparative studies in field of Maya antiquities.—Independent Indian states of Yucatan.—Two vases from Chama.

**Morgan, Lewis H.** Houses and house life of the American aborigines. 1881. 281 p. 4<sup>o</sup>. illus. (Interior dept. Geological survey. Contributions to North American ethnology) Paper, \$1.75; cloth, \$4.00.

A very readable and interesting work of standard value. Deals also with tribal organization, the laws of hospitality, and communism in living. Takes up the Aztecs, Moundbuilders, etc., in addition to the Indians.

**Moher, R. B., comp.** Executive register of United States, 1789 to 1902. 1905. 351 p. (Congress) Cloth, 40 cts.

Contains lists of presidents, vice presidents, and heads of executive departments from beginning of the government, with dates of service, laws governing their election or appointment-qualifications, etc., electoral and popular votes, and literal copies of the Declaration of Independence, the Constitution, and the Articles of confederation.

Other historical documents are given, such as Washington's first inaugural, the law of the Electoral commission and facts concerning it, the law fixing the presidential succession in case of death of the president and vice president, Grant's message at the time of the disputed presidential election in 1877, etc.

**Notes on the Spanish-American war.** 1900. Various paging. (Navy dept. Naval intelligence office) 75 cts.; cloth, 90 cts.; half leather, \$1.50.

Contains eight notes, as follows (each "note" being also issued separately at prices quoted):

1. Battles and capitulation of Santiago de Cuba, by José Müller y Tejero; translated from Spanish. 1898. 108 p. 2 maps. 30 cts.

Same, with additions. 1899. 165 p. 2 maps. 20 cts.

2. Comments of Rear-Admiral Plüddemann, German navy, on main features of war with Spain. 1899. 18 p. 5 cts.

3. Sketches from Spanish-American war, by Commander [Jacobsen]; translated from German. 1899. 38 p. illus. 2 maps. 5 cts.

4. Same, concluded. 5 cts.

5. Effect of gun fire of United States vessels in battle of Manila Bay, May 1, 1898. 1909. 13 p. 5 cts.

6. Spanish-American war, blockades and coast defense, by Severo Gómiz Núñez; translated from Spanish. 1899. 130 p. illus. map. 10 cts.

7. Spanish-American war, documents relative to squadron operations in West Indies, by Pascual Cervera y Topete; translated from Spanish. 1899. 165 p. 15 cts.

8. Squadron of Admiral Cervera, by V. M. Concas y Palau; translated from Spanish. 1900. 117 p. 10 cts.

An interesting series, which includes much source material.

**Perkins, George O.** The United States navy. Speech delivered in Senate, Feb. 21, 1908, with appendix. In Congressional record of Feb. 22, vol. 42, no. 51, p. 2397-2411. 6 cts.

This is a very comprehensive speech, giving a short historical sketch of the navy, present naval strength, fighting strength, depth of harbors, etc.

**Pulsifer, Woodbury, comp.** Navy yearbook. Compilation of annual naval appropriation laws from 1883 to 1912, including provisions for construction of all vessels of new navy, with tables showing present naval strength in vessels and personnel, and amount of appropriations for naval service, also statistics of foreign navies. 1912. 846 p. (62d Cong., 3d spec. Senate document 906) 50 cts.; cloth, 65 cts.

An annual, good for reference.



**Report of Secretary of navy in relation to armored vessels: 1864.** 607 p. illus. maps. (Navy dept.) Cloth, 45 cts.

The chief interest in this report is in connection with the history of the use of armored vessels, which, of course, have had their greatest development subsequent to the issuance of this document.

**Roberts, T. G.** Paper on merchant marine and navy, being prize essay published in Naval institute proceedings, Mar. 1910. 27 p. (61st Cong., 2d sess. Senate document 466) 5 cts.

Tells the interrelation of navy and merchant marine, and necessity for subsidizing latter.

**Boyce, C. C.** Indian land cessions in United States. In 18th Ethnology report, 1897. vol. 2. p. 521-997. 67 colored maps. large 8°. \$2.40; cloth, \$2.60.

A most notable and valuable compilation, tracing the steps by which the vast patrimony of the aboriginal Americans has been taken from them by the white man. The schedule shows the number and location of each cession, from the organization of the Government to 1864, with descriptions of the tracts ceded, date of the treaty or law governing the transfer, names of the tribes concerned, and other historical data and references. Similar facts are given in relation to the reservations which have been made in behalf of the Indians. The 118-page Introduction is a careful historical sketch of the varying policies of the English, French, and Spanish settlers and of the 13 colonies and the United States in dealing with the Indians and their lands.

**Secret proceedings and debates of [Federal] convention at Philadelphia, 1787, for purpose of forming constitution of United States, from notes taken by Robert Yates, including information laid before legislature of Maryland by Luther Martin, also other historical documents relative to Federal compact of North American Union.** 1909. 208 p. (Senate) 20 cts.; cloth, 50 cts.

Valuable source document.

**Sonneck, Oscar George Theodore.** Report on "The star-spangled banner," "Hail Columbia," "America," "Yankee doodle." 1909. 255 p. illus. large 8°. (Library of congress. Music division) 85 cts.

Historic fact from fiction sifted out and readings compared to secure an authentic text. Brings together material of great rarity and historic interest. Includes 23 facsimiles of rare early versions and manuscripts. A source document of great value.

**Stars and stripes [memoranda relative to United States flag and other flags furnished by Quartermaster's department]** 1909. 11 p. 1 illus. 12mo. (War dept. Quartermaster's department) 5 cts.

This little publication gives a history of the evolution of the flag and its various forms before it reached its present development. It also describes the various designs, sizes, and materials in which it is now made and the military rites to which it is put.

**State papers and correspondence bearing upon the purchase of Louisiana.** 1903. 299 p. (Congress) Cloth, 25 cts.

Includes treaty between United States and French Republic, signed Paris, April 30, 1803. Valuable only as a source document.

**Suez canal.** Information in regard to traffic, finances, shipping, and tonnage, and receipts and expenditures of Suez canal, and monograph on Great canals of the world. 1903. 89 p. 4°. (58th Cong., 1st sess. Senate document 30.) 10 cts.

The large amount of statistical matter has been superseded in whole or in part, but the historical matter still has permanent value.

**Sutherland, George.** Internal and external powers of the National government. 1910. 12 p. (61st Cong., 2d sess. Senate document 417) 5 cts.

An interesting and illuminating discussion of the dual sovereignty which characterizes our state and National governments.

**Addresses of President Taft on arbitration.** 1911. 66 p. (Presidential paper) 5 cts. Authoritative.

## TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Taylor, Maria.** Memorial in behalf of the architect of our federal constitution. Pelatiah Webster, of Philadelphia. 1908. 58 p. (60th Cong., 1st sess. Senate document 461) 15 cts.

Hon. Maria Taylor believes that Webster's "A dissertation on the political union and constitution of the thirteen United States of North America," published in Philadelphia, Feb. 16, 1783, contained the vital principle of the American Constitution of 1787; that this principle was entirely new and before unthought of; and that, consequently, Pelatiah Webster made a larger personal contribution to the science of government than any other one individual in the history of mankind." Webster's dissertation is reprinted.

**Territorial and commercial expansion of United States, 1800-1903, additions to national area and their subdivision into territories and states, and statistics of growth in population, production, commerce, and wealth.** In Treasury dept. Monthly summary of commerce and finance, May, 1904. p. 4295-4374. illus. 47. 35 cts.

**Treaty of peace between the United States and Spain; and accompanying papers.** 1899. 677 p. (55th Cong., 3d sess. Senate document 62, pts. 1 and 2) Cloth, 80 cts.

A most valuable source document. The accompanying papers include protocols, correspondence, reasons for taking the Philippines, a paper on protectorates, others on the Federated Malay states, the Philippines, etc.

**Upton, Emory.** Military policy of United States. 495 p. 2 maps. (War dept. Reprint 1912) Cloth, 65 cts.

Contents.—Chapters 1 to 7 relate to the Revolutionary war; chapter 8 to the military policy of the United States from the Revolution till the War of 1812; chapters 9 to 12 to the War of 1812; chapter 13 to the military policy from the War of 1812 to the Florida war; chapter 14 to the Florida (Seminoles) war; chapter 15 to the military policy during the Mexican war; chapter 16 to the military policy from the Mexican war to the Rebellion; chapters 17 to 20 to the Civil war; chapters 20 and 21 to the military policy of the Confederate states.

This work was written about 30 years ago, but had been pigeonholed and forgotten till unearthed by Senator Root, while Secretary of War, who says of it: "The work exhibits the results of such thorough and discriminating research, such a valuable marshaling of the facts of our military history, and such sound and ably-reasoned conclusions drawn from those facts as to the defects and needs of our military system, that it clearly ought to be made available for the study of our officers and for the information of all who may be charged with shaping our military policy in the future."

**Wilson, F. T.** Federal aid in domestic disturbances, 1787 to 1903 [employment of troops in enforcement of laws] 1903. 394 p. (57th Cong., 3d sess. Senate document 209. Bound in vol. 15 with other docs.; serial no. 4430) Cloth, 60 cts.

A partial list of the contents follows: Constitutional guaranty, its history; Whiskey insurrection, 1794; Burr's conspiracy, 1806 to 1807; Nullification excitement, 1832; Patriot war, 1837 to 1838; Dorr rebellion, 1842; Boston fugitive-slave cases, 1851; Mormon rebellion, 1851 to 1858; Affairs at Harpers Ferry, Va., 1859; War of rebellion, 1861 to 1865; Reconstruction period; Ku-Klux Klan, 1865 to 1872; Political disturbances in Louisiana, Arkansas, South Carolina; New Orleans riots, 1871 to 1872; Labor strikes of 1877; Disturbances in territories, 1876 to 1894; Railroad strikes of 1894; War with Spain, 1898; Philippine insurrection, 1898 to 1903; Coter d'Alens troubles, 1899, etc.

A painstaking investigation into sources, documents. Useful for reference or detailed advance work.

## HYGIENE.

**Directions for restoring the apparently drowned, for saving drowning persons by swimming to their relief, and for treatment of frost-bites.** 1909. 11 p. illus. (Treasury dept. Life-saving service) 5 cts.

**Doellittle, M. E.** Inspection of imported food and drug products. 1911. 10 p. (Agriculture department. Yearbook. Reprint 222)

How the work is done; results.

**Dorset, M.** Some common disinfectants. 1908. 12 p. (Agriculture dept. Farm... ers' bulletin 345)

Six varieties are discussed; how to use them, advantages and disadvantages.

Fuller, Myron L. Underground waters for farm use. 1910. 58 p. illus. (Interior dept. Geological survey. Water-supply paper 255)

Discusses very interestingly the sources of water supply, underground waters and their protection—necessity and methods. Some 75 half-tones and figures showing types of geologic formations in which water occurs; how ground and surface water become polluted and how it can be protected; how wells are sunk and water is raised.

Howard, L. O. Economic loss to the people of the United States through insects that carry disease. 1900. 40 p. (Agriculture dept. Entomology bureau. Bulletin 78) 10 cts.

Deals mainly with the mosquito and house, or "typhoid," fly. Well and simply written. Very suggestive.

House flies. 1911. 16 p. illus. (Agriculture dept. Farmers' bulletin 450)

Life history; how they carry disease; remedies and preventives; what cities and towns can do. Told in non-technical language.

How insects affect health in rural districts. Revised, 1906. 19 p. illus. (Agriculture dept. Farmers' bulletin 155)

City and country conditions compared; how insects transmit malaria, typhoid, yellow fever, and other diseases; fine drawings of 16 common insects.

Remedies and preventives against mosquitoes. 1911. 15 p. (Agriculture dept. Farmers' bulletin 444)

Discusses protection from bites, stings and funtignants, traps, remedies, and abolition of breeding places. Gives many good prescriptions.

Some facts about malaria. 1911. 13 p. illus. (Agriculture dept. Farmers' bulletin 450)

Its cause, method of infection, malarial mosquitoes, prevention and cure.

and Mariett, C. L. The principal household insects of the United States. Revised, 1902. 131 p. illus. (Agriculture dept. Entomology bureau. Bulletin 4) 10 cts.

Contains also a chapter on insects affecting cereals and other dry vegetable foods, by F. H. Chittenden. The book covers its field in an interesting and popularly written manner; describing the various insects, telling their life-histories and habits, and giving remedies.

Kehler, L. F. Habit-forming agents: their indiscriminate sale and use a menace to the public welfare. 1910. 19 p. illus. (Agriculture dept. Farmers' bulletin 393)

Told in non-technical language; for high-school work.

Morgan, F. P. and Rupp, Philip. Harmfulness of headache mixtures. 1907. 16 pp. (Agriculture dept. Farmers' bulletin 377)

The plain truth, in plain language, about acetanilid, antipyrin, and phenacetin. For high schools especially.

Lane, C. B., and Weld, Ivan C. A city milk and cream contest as a practical method of improving the milk supply. 1907. 28 p. (Agriculture dept. Animal industry bureau. Circular 117) 5 cts.

Gives complete description of a dairyman's contest held by the city of Cleveland; methods and results.

See also Kelly, Ernest. Milk and cream contests, etc. 1912. (Agriculture dept. Animal industry bureau. Circular 305) 4 cts.

Leahy, David E. How to destroy rats. 1909. 20 p. illus. (Agriculture dept. Farmers' bulletin 340)

Methods of prevention are also given.

Leake, James F. Contagious diseases: Their prevention and control in children's institutions. 1913. 7 p. (Treasury dept. Public health bureau. Supp. 6 to the Public health reports) 5 cts.

Simple directions for the recognition of 7 diseases.

## 52 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

**Mariatt, C. L.** Important insecticides: Directions for their preparation and use. Revised, 1908. 48 p. illus. (Agriculture dept. Farmers' bulletin 127)

"Without going minutely into the field of remedies and preventives . . . it is proposed to give in this bulletin brief directions concerning a few of the insecticide agents having the widest range and attended with the greatest usefulness, economy, and ease of application." Does not take up household insects.

**Moore, George T.** The contamination of public water supplies by algae. 1902. 10 p. illus. (Agriculture dept. Yearbook. Reprint 282) 5 cts.

Flowering plants and algae that flourish in reservoirs; preventives. Two well-executed color plates of algae types.

**Page, Logan Waller.** Dust preventives. 1908. 8 p. illus. (Agriculture dept. Yearbook. Reprint 448) 5 cts.

Discusses, and tells ways to use, oils, coal tar, solutions, and emulsions.

**Mohler, John B., and Smith, Erwin F.** How to prevent typhoid fever. 1911. 8 p. (Agriculture dept. Farmers' bulletin 478)

The danger from typhoid; nature of the disease; sanitary measure to be taken; vaccination against it. For secondary schools.

### Public health reports.

A weekly publication, reaching more than 2,300 pages in the course of a year, issued by the Public health service. Price, \$2 per year. Hardly suitable for school use. In addition, the Service has issued bulletins on such diseases as infantile paralysis, plague, leprosy, yellow fever, and hookworm, which might be useful locally.

**Rogers, L. A.** Directions for the home pasteurization of milk. 1912. 3 p. illus. (Agriculture dept. Animal industry bureau. Circular 197)

Intended for city dwellers. For circular written especially for country dwellers, see The pasteurization of milk. (Agriculture dept. Animal industry bureau. Circular 184) 5 cts.

Some scientific conclusions concerning alcoholic problem and its practical relations to life, papers read at semiannual meeting of American society for study of alcohol and other drug narcotics; Washington, D. C., Mar., 1909. 179 p. (61st Cong., 1st sess. Senate document 48) 15 cts.

**Stiles, C. W., and Lumsden, L. L.** The sanitary privy. 1911. 32 p. illus. (Agriculture dept. Farmers' bulletin 463)

Written with especial reference to country conditions; gives plans of sanitary privies, tells dangers from insanitary ones; outlines simple plans for avoiding soil pollution.

**Tuberculosis:** A plain statement of facts regarding the disease, prepared especially for farmers and others interested in live stock, by the international commission of the American veterinary medical association on the control of bovine tuberculosis. 1911. 23 p. illus. (Agriculture dept. Farmers' bulletin 473)

Tells only of tuberculosis in cattle and methods of controlling the disease. Written in very simple, nontechnical language.

**Wilson, Elmina T.** Modern conveniences for the farm home. 1906. 48 p. illus. (Agriculture dept. Farmers' bulletin 270)

What should be requirements in water supply, plumbing, earth closets, sewage and refuse disposal, and heating; examples; how to introduce improvements in houses already built.

## NATURE STUDY.

**Arbor day.** 1911. 4 p. (Agriculture dept. Forest service. Circular 98) 5 cts.

Gives lesson of the day, relation of nature study to forestry, forest topics to group about Arbor day, and planting suggestions. A valuable guide to teachers in planning the day's program.

**Badley, Vernon.** Biological survey of Texas. 1905. 222 p. illus. 6 colored maps. (Agriculture dept. Biological survey bureau. North American fauna 25) 50 cts.

Good for general which teacher can extract from it for local use. Too scientific for the pupils.



**Bailey, Vernon.** Directions for the destruction of wolves and coyotes. 1907. 6 p. (Agriculture dept. Biological survey bureau. Circular 55) 5 cts.

**Beal, F. E. L.** Birds of California in relation to the fruit industry. 1907. pt. 1. 100 p. illus. in color. 20 cts. 1910. pt. 2. 96 p. illus. in color. 40 cts. (Agriculture dept. Biological survey bureau. Bulletins 30 and 34) 20 and 40 cts.

All, or nearly all, Californian species treated "in order that it may be possible for the fruit raiser to discriminate between friend and foe." Protective measures against destructive species are also discussed.

Food of our more important fly-catchers. 1912. 67 p. illus. in color. (Agriculture dept. Biological survey bureau. Bulletin 44)

17 species are described and their stomach-contents analyzed.

**and Judd, Sylvester D.** Cuckoos and shrikes in their relation to agriculture. 1898. 26 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 9) 5 cts.

Biological survey bureau.

Almost, if not quite, without exception, the publications of this bureau are of prime importance to the teacher of nature-study, whether elementary or advanced.

**Cary, Merritt.** A biological survey of Colorado. 1911. 256 p. illus. (Agriculture dept. Biological survey bureau. North American fauna 33) 35 cts.

Good for the material which the teacher can extract from it for local use. Too scientific for pupils.

**Cheesnut, V. K.** Thirty poisonous plants of the United States. 1898. 32 p. illus. (Agriculture dept. Farmers' bulletin 86) 5 cts.

The first illustrated account of the commonest native species. Description, range and specific poisonous properties of each plant are given, together, in some instances, with treatment.

**Chittenden, F. H.** Some insects injurious to vegetable crops. 1902. 117 p. illus. (Agriculture dept. Entomology bureau. Bulletin 33) 10 cts.

More than 40 insects are discussed, principally from the technical standpoint. Many good remedies are given.

Some insects injurious to the violet, rose, and other ornamental plants. 1901. 114 p. illus. (Agriculture dept. Entomology bureau. Bulletin 27) 10 cts.

Forty insects are discussed in rather technical way. Many good remedies are given, however.

**Cooke, Wells W.** Distribution and migration of North American ducks, geese, and swans. 1906. 80 p. (Agriculture dept. Biological survey bureau. Bulletin 26) 10 cts.

A general as well as specific discussion. Many good tables showing distribution.

Distribution and migration of North American shorebirds. Revised, 1912. 100 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 35) 10 cts.

Eighty-six species are described specifically.

Distribution and migration of North American warblers. 1904. 142 p. (Agriculture dept. Biological survey bureau. Bulletin 18) 10 cts.

Gives routes of migration and southernmost winter ranges of warblers of eastern North America. Largely useful for reference.

**Dearborn, Ned.** The English sparrow as a pest. 1912. 24 p. illus. (Agriculture dept. Farmers' bulletin 493)

History; how to prevent their increase and how to destroy them; how to prepare them for food. Useful work for the high school, whether in city or country.

Directions for the destruction of prairie dogs. 2d rev. ed. 1908. 3 p. illus. (Agriculture dept. Biological survey bureau. Circular 32)

Easy ways of poisoning the pests.



54 TEACHING MATERIAL IN GOVERNMENT PUBLICATIONS.

Fifty common birds of field and orchard. 1913. 31 p. illus. (Agriculture dept. Farmers' bulletin 518) 15 cts.

Briefly gives "the most prominent characteristics of the several species, at least from the standpoint of their relation to man." Each species described is pictured in a well-executed reproduction in colors of drawings made from nature by the well-known bird artist, Louis Agassiz Forster. Useful in rural schools of all grades.

Fisher, A. K. Hawks and owls from the standpoint of the farmer. 1907. 18 p. illus. (Agriculture dept. Biological survey bureau. Circular 61) 5 cts.

Corrects misapprehensions.

Forestry in nature study. 1909. 10 p. (Agriculture dept. Experiment stations office. Special circular) 5 cts.

Gives a syllabus for an elementary course. "The Forest service will gladly supply without cost outlines of a plan for school nurseries and plantations and publications for use as textbooks."

Hall, William L. Tree-planting on rural school grounds. 1901. 33 p. illus. (Agriculture dept. Farmers' bulletin 134)

"The paper deals with the present condition and needs of rural school grounds and indicates methods for their improvement. It also suggests important lines of study for the teacher and school in connection with trees and forests."

Henkel, Alice. American medicinal barks. 1909. 59 p. illus. (Agriculture dept. Plant industry bureau. Bulletin 139) 15 cts.

A guide and reference work. Like Miss Henkel's two works listed below, each entry is discussed from the point of view of its pharmacopoeial and common names, habitat and range, description, prices and uses.

— American medicinal leaves and herbs. 1911. 56 p. (Agriculture dept. Plant industry bureau. Bulletin 219) 15 cts.

A guide and reference book. See above and below.

— American root drugs. 1907. 80 p. illus. (Agriculture dept. Plant industry bureau. Bulletin 107) 15 cts.

See below.

Chiefly valuable as a guide and reference work. See above.

— Weeds used in medicine. 1904. 47 p. illus. (Agriculture dept. Farmers' bulletin 188)

Thirty-one plants are described and commercial prices given, accompanied by brief instructions to the farmer for collecting and preparing crude drugs from weeds.

Henshaw, H. W. Does it pay the farmer to protect birds? 1908. 14 p. illus. (Agriculture dept. Yearbook. Reprint 443) 5 cts.

A discussion of the services and disservices of some 15 kinds of birds commonly about the farm.

Howell, Arthur H. Birds of Arkansas. 1911. 100 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 38) 25 cts.

266 species and sub-species are described. The best book at anywhere near the price for local use.

— Destruction of the cotton boll weevil by birds in winter. 1908. 5 p. (Agriculture dept. Biological survey bureau. Circular 64) 5 cts.

Tells of 5 species which feed on the pest.

Insects.

For publications or information dealing with any particular kind of insect, write the Bureau of entomology, Department of agriculture.

Jackson, Edwin B. Forestry in nature study. 1911. 48 p. illus. (Agriculture dept. Farmers' bulletin 468)

This bulletin outlines a forestry course on logical, progressive lines, for the first six years of the elementary schools. It also suggests experiments; field trips; a forest calendar and museum; names supplementary reading and reference books; and gives a key to the common trees.

Judd, Sylvester D. The bobwhite and other quails of the United States in their economic relations. 1906. 66 p. illus. in color. (Agriculture dept. Biological survey bureau. Bulletin 21) 15 cts.

The birds are also discussed from every other standpoint.

**Judd, Sylvester D.** The grouse and wild turkeys of the United States and their economic value. 1906. 55 p. illus. in color. (Agriculture dept. Biological survey bureau. Bulletin 24) 10 cts.

Thirteen varieties are described, chiefly as to preservation, propagation and food habits.

— The relation of sparrows to agriculture, 1901. 98 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 15) 10 cts.

**Kirkland, A. M.** Usefulness of the American toad. 1904. 16 p. (Agriculture dept. Farmers' bulletin 196)

Life history and habits; noxious insects eaten. "The toad is one of the best objects for class-room work in nature study."

**Lantz, David E.** Coyotes in the economic relations. 1906. 28 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 20) 5 cts.

Numbers, habits, methods of destroying and protecting country against them.

— Directions for destroying pocket gophers. Revised, 1908. 4 p. illus. (Agriculture dept. Biological survey bureau. Circular 52) 5 cts.

How to trap or poison them.

— An economic study of field mice (genus *microtus*) 1907. 64 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 31) 15 cts.

Habits, species, destructiveness, relation to the farmer, means of repression.

— Raising deer and other large animals in the United States. 1910. 62 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 36) 15 cts.

Deer which can be semi-domesticated and raised for venison.

**Lucas, F. A.** Outline for educational exhibit of fishes. 1910. p. 1341-1351, large 8°. (Commerce dept. Fisheries bureau. Bulletin, v. 28)

**McAtee, W. L.** Our vanishing shore-birds. 1911. 9 p. illus. (Agriculture dept. Biological survey bureau. Circular 79)

What birds should be preserved; why, and how.

— Plants useful to attract birds and protect fruit. 1909. 12 p. (Agriculture dept. Yearbook. Reprint 504) 5 cts.

Classified by localities.

— and **Beal, F. E. L.** Some common game, aquatic and rapacious birds in relation to man. 1912. 30 p. illus. (Agriculture dept. Farmers' bulletin 497)

Fourteen birds are described; with their pictures. Well, simply, and interestingly written. Of particular value in rural high and agricultural schools.

**Merriam, O. Hart.** The California ground squirrel. 1910. 15 p. illus. (Agriculture dept. Biological survey bureau. Circular 76) 5 cts.

Tells also how to destroy them.

**Oberholser, Harry C.** The North American eagles and their economic relations. 1906. 31 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 27) 10 cts.

An interesting description of the bald, gray sea, and golden eagles, from the standpoint of their general and good habits, economic status and destruction by man.

**Oldys, Henry.** Cage-bird traffic of United States. 1906. 15 p. illus. (Agriculture dept. Yearbook. Reprint 414) 10 cts.

Gives brief descriptions of the birds; how and where they are procured, the features of the wholesale and retail trade in them, how they are shipped, how they are cared for. Among the illustrations is a portrait (colored from the life) of the Australian Lady Gould finch, which is said to "reach the highest point of beauty and elegance attained by any of the smaller cage birds of the world."

"Many readers will doubtless be surprised to learn that the annual importations of cage birds into this country include something like 300 species and more than 300,000 individual specimens. Equally surprising to many readers it will be to learn that the cage trade in native birds has come

almost to an end, this being due, it is supposed, to the restrictive laws for the protection of birds, which by the efforts of the Audubon societies have been enacted in 35 states, including all the states from which desirable birds could be procured. As to importations, bird-lovers may bewail the fact that so many birds are imported to suffer lives of captivity, but their grief should be mitigated by the other fact that a large majority of the importations are canaries, domesticated for many generations and knowing only the captive life. The worst cruelty that could be shown such birds would be to give them liberty and compel them to shift for themselves."

Palmer, T. S. Hunting licenses; their history, objects and limitations. 1904. 72 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 19) 10 cts.

Discusses also licenses of foreign countries and gives index of legislation in United States.

— The jackrabbits of the United States. Revised, 1897. 88 p. illus. (Agriculture dept. Biological survey bureau. Bulletin 8) 10 cts.

— National reservations for the protection of wild life. 1912. 32 p. maps. (Agriculture dept. Biological survey bureau. Circular 87)

General description, summary, and bibliography. Useful chiefly for reference and direction to other sources.

— Private game preserves and their future in the United States. 1910. 11 p. illus. (Agriculture dept. Biological survey bureau. Circular 72) 5 cts.

Winklerwerder, Hugo A. Forestry in the public schools. 1907. 16 p. (Agriculture dept. Forest service. Circular 130) 5 cts.

How forestry could be introduced in the following courses: Nature study, general geography, arithmetic, United States history, civics, physical geography, commercial geography, botany, wood-working, and agriculture. A circular of large suggestive value, especially to rural school-teachers and faculties of normal schools.

#### MISCELLANEOUS.

A. L. A. catalog, 8,000 volumes for a popular library, with notes, 1904, prepared by New York state library and Library of congress under auspices of American library association publishing board; editor, Melvil Dewey, and others; pt. 1, Classified; pt. 2, Dictionary. 1904. 2 pts. in 1 vol. 404+485 p. (Library of congress) \$1.

See also same, pt. 1, separate. 404 p. 15 cts.; cloth, 25 cts.

Manual of calisthenic exercises. 54 p. illus. small 4°. (War dept. Adjutant-general's office) 5 cts.; cloth, 25 cts.

Reprint, 1912.

Social plays, games, marches, old-folk dances, and rhythmic movements for use in Indian schools. 1911. 67 p. illus. (Interior dept. Indian affairs office) 10 cts.

More than 150 games, graded for school children of all ages. Just as useful in white schools as in Indian.

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